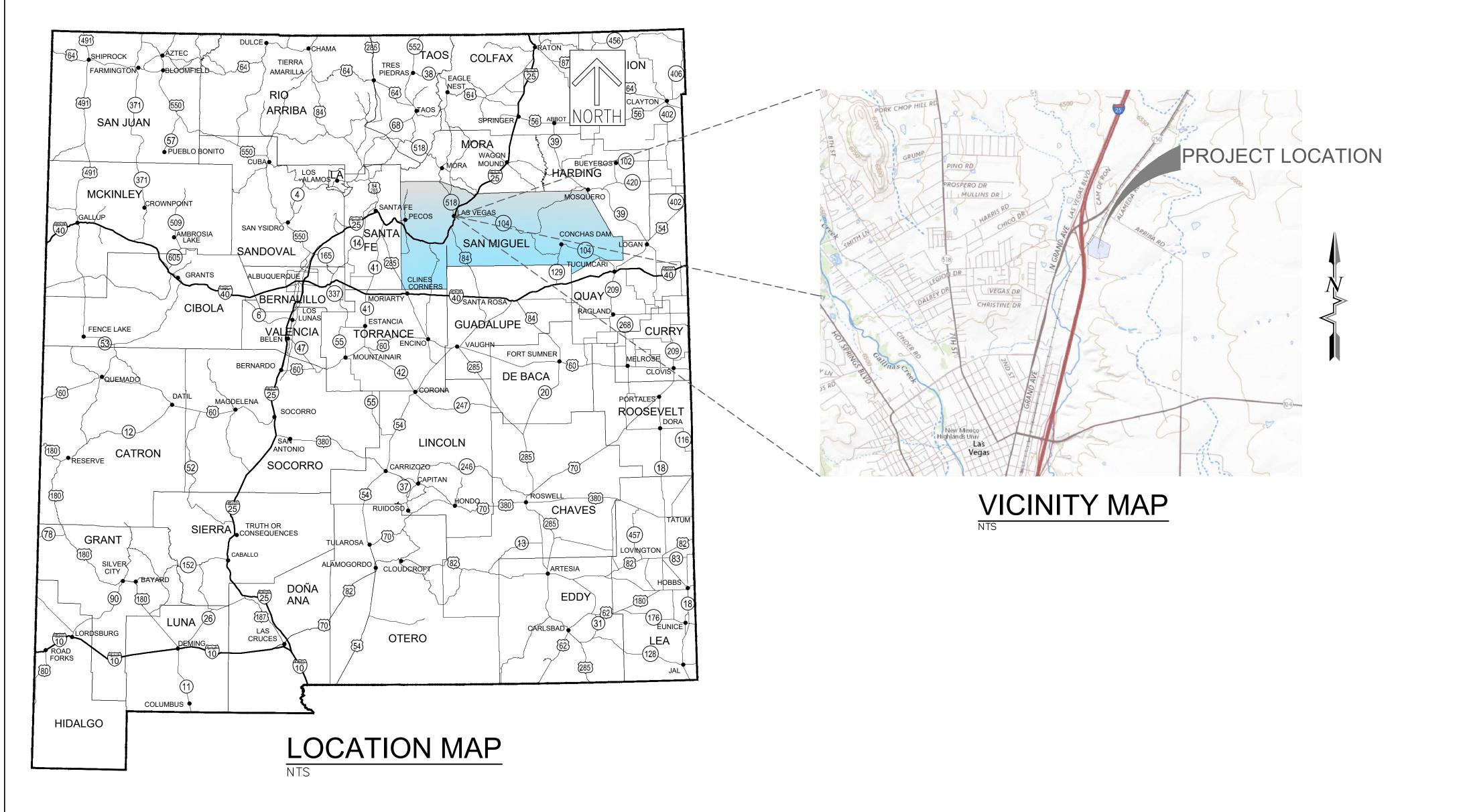
LAS VEGAS SOLID WASTE FACILITY

TRANSFER STATION DRAINAGE PROJECT

SAN MIGUEL COUNTY, LAS VEGAS, NEW MEXICO

March 2022

PROJECT DESCRIPTION:
GRADING, DRAINAGE, PAVING AND PARKING IMPROVEMENTS



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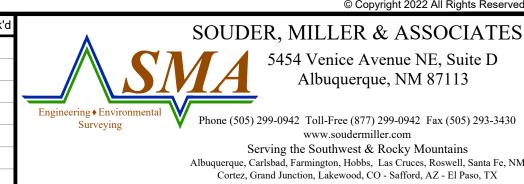
THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION ON BEHALF OF SOUDER, MILLER & ASSOCIATES.

RAYMOND J. SMITH, P.E. DATE PROJECT MANAGER

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GENERAL NOTES

- SOUDER, MILLER AND ASSOCIATES SHALL HEREINAFTER BE KNOWN AS THE ENGINEER. CONTRACTOR SHALL SUBMIT ALL QUESTIONS TO ENGINEER'S REPRESENTATIVE.
- THERE WILL BE A PERSON OR PERSONS (HEREINAFTER KNOWN AS THE OWNER'S REPRESENTATIVE) CHOSEN BY OWNER (HEREINAFTER KNOWN AS THE OWNER) TO ACT AS A CONTACT PERSON BETWEEN THE OWNER AND THE ENGINEER. THE OWNER'S REPRESENTATIVE WILL OBSERVE AND PROVIDE INFORMATION, AND PROVIDE CRITICAL LOCATIONS THROUGH THE ENGINEER TO THE CONTRACTOR IN THE FIELD.
- THE ENGINEER WAIVES ANY AND ALL RESPONSIBILITY AND IS NOT LIABLE FOR PROBLEMS THAT MAY ARISE FROM THE CONTRACTOR'S FAILURE TO FOLLOW THESE DRAWINGS, SPECIFICATIONS, AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS ARISING FROM FAILURE TO OBTAIN AND/OR FOLLOW THE ENGINEER'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS.
- CONTRACTOR SHALL CONFINE ALL CONSTRUCTION OPERATIONS TO THE LIMITS OF THE PROJECT EASEMENTS DEFINED IN THESE DRAWINGS, AND IN NO WAY ENCROACH ONTO ADJACENT PROPERTIES, UNLESS LEGAL EASEMENTS ARE PROVIDED. CONTRACTOR SHALL BE HELD SOLELY RESPONSIBLE FOR ANY AGREEMENTS NEEDED, OR DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES TO PUBLIC OR PRIVATE PROPERTY, INCLUDING UTILITIES.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTING THE PROJECT ACCORDING TO CURRENT NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (NMSSPWC) APWA SPECS AND STANDARDS, INCLUDING WHERE PARTICULAR WORK ITEMS ARE NOT SPECIFIED HEREIN.
- CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS AS SET FORTH IN THE TECHNICAL SPECIFICATIONS AND CONTRACT DOCUMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE ENGINEER REGARDING ANY QUESTION ARISING FROM ANY ASPECT OF THIS PROJECT NOT SPECIFICALLY COVERED IN THE PLANS AND TECHNICAL SPECIFICATIONS, OR ANY CHANGES OR CORRECTIONS TO THE PLANS AND SPECS.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY, WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL (OSHA), STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29 CFR 1926, SUBPART P - EXCAVATIONS.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR OBTAINING BUILDING PERMITS, ROAD CROSSING PERMITS AND ANY OTHER PERMITS, WHICH HAVE NOT ALREADY BEEN OBTAINED BY THE OWNER OR ENGINEER.
- THE CONTRACTOR SHALL PROVIDE INGRESS AND EGRESS TO ANY LOCAL BUSINESSES AND RESIDENTS AS REQUIRED FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL ADVISE OF AND SCHEDULE ACCESS CLOSURES AT LEAST 24 HOURS IN ADVANCE WITH PROPERTY OWNERS AND THE ENGINEER.
- 10. CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH SPECIFICATIONS FOR ROAD AND ANY APPLICABLE SPECIAL PROVISION AND/OR SUPPLEMENTAL SPECIFICATION, AS WELL AS THE MOST CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. UNLESS OTHERWISE SPECIFIED HEREIN.
- 11. AS PART OF THE TRAFFIC CONTROL PLAN AND TRAFFIC CONTROL MANAGEMENT, THE CONTRACTOR SHALL HAVE PERSONNEL AVAILABLE 24 HOURS PER DAY, 7 DAYS PER WEEK, TO INSPECT AND MAINTAIN DETOURS AND TRAFFIC CONTROL DEVICES.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS REQUIRED BY THE PLANS WHETHER SPECIFICALLY LISTED OR NOT TO COMPLETE THE PROJECT. THIS WORK WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND THE CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR UNLISTED REMOVALS.
- 13. OBSTRUCTIONS REMOVED FROM THE WORK AREAS SHALL BE DISPOSED OF BY THE CONTRACTOR. DISPOSAL OF USABLE MATERIALS (E.G., EXCESS DIRT, GRAVEL, ETC.) SHALL BE AT A SITE DESIGNATED BY THE OWNER DURING CONSTRUCTION. ALL OTHER WASTE SHALL BE DISPOSED OF AT AN APPROVED LANDFILL. ALL DISPOSAL SITES MUST BE APPROVED BY THE ENGINEER AND OWNER PRIOR TO DISPOSAL OF ANY WASTE.
- 14. THE CONTRACTOR SHALL SALVAGE ANY OBSTRUCTIONS NOTED ON THE CONTRACT DRAWINGS AS WELL AS REUSABLE ITEMS FOUND DURING CONSTRUCTION. SUCH ITEMS, IF ANY, SHALL BE DELIVERED TO THE PROPERTY OWNER AS DIRECTED BY THE ENGINEER AND/OR OWNER DURING
- 15. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING AN EQUIPMENT STORAGE YARD. THE LOCATION OF THE YARD MUST BE APPROVED BY THE OWNER. NO DIRECT PAYMENT WILL BE MADE FOR THE YARD. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL SITE SECURITY.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A WATER SOURCE FOR CONSTRUCTION UNLESS OTHERWISE PROVIDED. NO DIRECT PAYMENT WILL BE MADE FOR WATER. ALL PERMITS, FEES, EQUIPMENT, HAUL, ETC. RELATIVE TO OBTAINING WATER SHALL BE CONSIDERED INCIDENTAL.
- 17. THE CONTRACTOR SHALL TAKE ANY NECESSARY MEASURES TO PROTECT HORIZONTAL AND VERTICAL CONTROL SURVEY MONUMENTS FROM DAMAGE DURING CONSTRUCTION. IF DURING EXECUTION OF THE PROJECT, THE CONTRACTOR'S ACTIVITIES DISTURB OR DESTROY SUCH MONUMENTS, THE CONTRACTOR SHALL RE-ESTABLISH THEM IN ACCORDANCE WITH ESTABLISHED STANDARDS AND PROCEDURES.
- 18. CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING STRUCTURES FREE OF DUST AND/OR CONSTRUCTION DEBRIS AT ALL TIMES DURING THE EXECUTION OF THE PROJECT. ALL EXISTING AND NEW STRUCTURES SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. ALL COSTS RELATED TO THIS ITEM SHALL BE INCIDENTAL TO THE WORK AND NO EXTRA PAYMENT SHALL BE MADE TO THE CONTRACTOR.
- 19. CONTRACTOR SHALL REPAIR ANY EXISTING STRUCTURE OR UTILITY DAMAGED DURING THE EXECUTION OF THE PROJECT, AT NO ADDITIONAL COSTS TO THE OWNER.
- 20. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PROTECTION OF MATERIALS AND EQUIPMENT PRIOR TO AND AFTER THEIR INSTALLATION AS APPLICABLE, UNTIL THE PROJECT'S FINAL ACCEPTANCE BY THE OWNER.
- 21. THE CONTRACTOR SHALL PREPARE AND MAINTAIN UP-TO-DATE "AS-BUILT" DRAWINGS AS PER THE CONTRACT DOCUMENTS. UPDATING SUCH DRAWINGS SHALL BE DONE NOT LESS THAN ONCE EVERY WEEK. THE OWNER AND ENGINEER'S PROJECT REPRESENTATIVES SHALL BE ALLOWED TO REVIEW THESE DRAWINGS AT ANY TIME DURING CONSTRUCTION. PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER COMPLETE AS-BUILT DRAWINGS AS PER CONTRACT DOCUMENTS. TWO SETS OF "AS-BUILT DRAWINGS" WILL BE SUBMITTED, UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS. ANY EXISTING UTILITIES NOT SHOWN IN THESE DRAWINGS SHALL BE LOCATED AND SHOWN IN AS-BUILT DRAWINGS.
- 22. CONTRACTOR SHALL SUBMIT ASTM OR AASHTO CERTIFICATES OF MATERIAL'S COMPLIANCE TO THE OWNER'S PROJECT REPRESENTATIVE, NO LESS THAN 5 DAYS PRIOR TO INITIATING ANY WORK INVOLVING SUCH MATERIALS.
- 23. ANY EXCEPTIONS TO PLACEMENT OR DEPTH OF MATERIALS AND EQUIPMENT MUST BE AUTHORIZED BY THE ENGINEER.
- 24. TESTING SHALL BE PERFORMED BY THE CONTRACTOR AS PER CONTRACT DOCUMENTS.

- 25. OVER-EXCAVATION OF TRENCHES SHALL NOT BE PERFORMED UNLESS IT IS DETERMINED TO THE SATISFACTION OF THE ENGINEER THAT THE SUBSOIL IS NOT SUITABLE FOR PIPE BEDDING AND MUST BE REPLACED WITH IMPORTED FILL. OVER-EXCAVATION PERFORMED UNNECESSARILY BY THE CONTRACTOR SHALL BE REMEDIED WITH CLASSIFIED FILL AND COMPACTION AS REQUIRED BY THE SPECIFICATIONS. NO ADDITIONAL PAYMENT SHALL BE MADE FOR IMPORTED FILL UNDER ANY CIRCUMSTANCES.
- 26. ALL FINISHED SLOPES (BOTH SIDE-SLOPES AND ALONG THE CENTERLINE) SHALL BE 4:1 OR
- 27. IMPORTED PADDING AND BACK FILL MATERIAL, IF REQUIRED, SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE. SEPARATE PAYMENT WILL NOT BE MADE FOR PADDING AND BACK FILL MATERIAL OR HAUL. ALL PADDING AND BACK FILL MATERIAL OR HAUL SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS WORK ITEMS. THE CONTRACTOR SHALL SECURE A SUITABLE PADDING AND BACK FILL MATERIAL PIT IF MATERIAL IS REQUIRED TO COMPLETE THE
- 28. BACK FILL DENSITY TESTS SHALL BE PERFORMED AS PER SPECIFICATIONS. MINIMUM REQUIREMENTS ARE HORIZONTALLY FOR EACH 100 LINEAR FEET OF PIPELINE, OR ANY STRUCTURE THAT REQUIRES COMPACTED FOUNDATION OR CONTROLLED BACK FILL. ADDITIONAL COMPACTION TESTS SHALL ALSO BE TAKEN EVERY 3 VERTICAL FEET OF BACK FILL
- 29. CONTRACTOR SHALL WARRANTEE ALL MATERIALS AND LABOR FOR A PERIOD OF NOT LESS THAN 12 MONTHS FROM THE DATE OF FINAL INSPECTION AND ACCEPTANCE OF THE PROJECT.
- 30. EXISTING SITE CONDITIONS MAY HAVE BEEN ALTERED PRIOR TO COMMENCEMENT OF CONSTRUCTION AND MAY NOT BE ACCURATE AT THE TIME OF CONSTRUCTION, FIELD VERIFY ALL CONDITIONS PRIOR TO CONSTRUCTION
- 31. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, UNDERGROUND UTILITIES AND EQUIPMENT AFFECTING THE WORK UNDER THIS CONTRACT. THE LOCATION OF ALL UTILITIES SHOWN HEREIN ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO CONSTRUCTIONS.
- 32. SHOULD CONFLICTING INFORMATION OR INTERFERENCE WITH EXISTING CONDITIONS APPEAR WITHIN THESE CONSTRUCTION DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR SHALL IMMEDIATELY BRING THAT INFORMATION TO THE ATTENTION OF THE ENGINEER PRIOR TO INSTALLATION OR CONSTRUCTION. FAILURE TO COMPLY SHALL NOT BE THE BASIS FOR EXTRA PAYMENT TO THE CONTRACTOR.
- 33. ALL PROPERTY CORNERS SHALL BE CLEARLY DELINEATED IN THE FIELD PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION AND/OR GRADING.

EROSION CONTROL NOTES:

- 1. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR EROSION CONTROL INCIDENTAL TO THE CONSTRUCTION ACTIVITIES.
- STORM WATER POLLUTION PREVENTION PLANS AND EROSION CONTROL SHALL BE IMPLEMENTED BY CONTRACTOR TO PROTECT PROPERTIES AND PUBLIC FACILITIES FROM THE ADVERSE EFFECTS OF EROSION AND SEDIMENTATION AS A RESULT OF CONSTRUCTION ACTIVITIES.
- EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AND SHALL BE KEPT IN PLACE UNTIL EROSION AND SEDIMENTATION POTENTIAL IS MITIGATED. REMOVAL OF SILT AND SEDIMENT IS REQUIRED ONCE SILT AND SEDIMENT HAS REACHED HALF THE HEIGHT OF THE SILT
- EROSION CONTROL DEVICES SHALL BE CHECKED AND MAINTAINED PER USEPA REQUIREMENTS AND THE GENERAL CONSTRUCTION PERMIT.

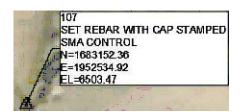
COMPACTION REQUIREMENTS

- 1. PITRUN 90% MAX DRY DENSITY PER ASTM D1557 OR D698
- 2. SUBGRADE 95% MAX DRY DENSITY PER ASTM D698
- 3. BASE COURSE 95% MAX DRY DENSITY PER ASTM D1557

4. ASPHALT CONCRETE - 93% - 97% MAX DENSITY PER ASTM D2041

BENCHMARK

HORIZONTAL AND VERTICAL CONTROL IS BASED ON NAD83 / NAVD83 CENTRAL ZONE. SEE SHEET C-1 FOR LOCATION OF CONTROL POINT.



CONTROL

THE CONTRACTOR SHALL ESTABLISH AND PRESERVE SECONDARY HORIZONTAL AND VERTICAL CONTROL.

ARREVIATIONS

ABBREVIATIONS								
ADS	ADVANCE DRAINAGE SYSTEM	PB	POND BOTTOME					
BOS	BOTTOM OF SWALE	PC	POINT OF CURVATURE					
BW	BOTTOM WALL	PT	POINT OF TANGENT					
CONC	CONCRETE	PVC	POLYVINYL CHLORIDE PIPE					
C/L	CENTERLINE	RT	RIGHT					
EL	ELEVATION	ROW	RIGHT OF WAY					
EOA	EDGE OF ASPHALT	SD	STORM DRAIN					
EOC	EDGE OF CONCRETE	SF	SEPTIC FIELD					
EXIST	EXISTING	SL	SILT FENCE					
ESMT	EASEMENT	SSMH	SANITARY SEWER MANHOLE					
FF	FINISH FLOOR	ST	SEPTIC TANK					
FL	FLOWLINE	STCMP	STORMWATER CMP					
GB	GRADE BREAK	SW	SIDEWALK					
GV	GATE VALVE	TA	TOP ASPHALT					
HDPE	HIGH DENSITY POLYETHYLENE	TBC	TOP BACK CURB					
HP	HIGH POINT	TOC	TOP OF CONCRETE					
INV	INVERT	TOP	TOP OF RAMP					
LF	LINEAR FEET	TOS	TOP OF SWALE					
LT	LEFT	TOP	TOP OF PIPE					
ME	MATCH EXISTING	TW	TOP WALL					
MIN	MINIMUM	VG	VALLEY GUTTER					
NTS	NOT TO SCALE	-						

ENVIRONMENTAL NOTES

- CONTRACTOR SHALL COMPLY WITH ALL ENVIRONMENTAL REQUIREMENTS IMPOSED BY THE NEW MEXICO ENVIRONMENT DEPARTMENT (NMED) AND ANY OTHER AGENCY WITH JURISDICTION OVER THE PROJECT AREA.
- 2. ALL WORK IN THE VICINITY OF LIVE STREAMS, WATER IMPOUNDMENTS, WETLANDS OR IRRIGATION SUPPLIES SHALL BE EFFECTED IN SUCH A MANNER AS TO MINIMIZE VEGETATION REMOVAL, SOIL DISTURBANCE AND EROSION. CROSSINGS OF LIVE STREAMS WITH HEAVY EQUIPMENT SHALL BE MINIMIZED, AS DETERMINED BY THE PROJECT MANAGER. EQUIPMENT REFUELING, MAINTENANCE AND CEMENT DUMPING IN THE VICINITY OF WATER COURSES IS STRICTLY PROHIBITED AND SHALL BE PERFORMED IN PROPER CONTAINMENT AREAS.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING AND CLEANUP OF SPILLS ASSOCIATED WITH PROJECT CONSTRUCTION AND SHALL REPORT AND RESPOND TO SPILLS OF HAZARDOUS MATERIALS SUCH AS GASOLINE, DIESEL, MOTOR OILS, SOLVENTS, CHEMICALS, TOXIC AND CORROSIVE SUBSTANCES, AND OTHER MATERIALS WHICH MAY BE A THREAT TO PUBLIC HEALTH OR THE ENVIRONMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING PAST SPILLS ENCOUNTERED DURING CONSTRUCTION AND OF CURRENT SPILLS NOT ASSOCIATED WITH CONSTRUCTION. REPORTS SHALL BE MADE IMMEDIATELY TO THE NM ENVIRONMENT DEPARTMENT EMERGENCY RESPONSE TEAM AT (505) 827-4308 OR (505) 470-3657 AND TO THE PROJECT ENGINEER. ANY UNREPORTED SPILLS IDENTIFIED AFTER CONSTRUCTION AND THE ASSOCIATED CLEANUP COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 4. IN THE EVENT THAT THE CONTRACTOR ENCOUNTERS ITEMS OF HISTORICAL IMPORTANCE. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY AND WORK IN THE AREA SHALL IMMEDIATELY CEASE UNTIL THE SITE CAN BE PROPERLY CLEARED.
- ARCHAEOLOGICAL DISCOVERY: NO ARCHAEOLOGICAL SITES ARE TO BE EXCAVATED OR OTHERWISE DISTURBED. THE CONTRACTOR SHALL CONFINE ALL CONSTRUCTION-RELATED ACTIVITIES TO AREAS THAT HAVE RECEIVED PRIOR ARCHAEOLOGICAL CLEARANCE, AS INDICATED BY THE ENGINEER. IF A PREVIOUSLY UNIDENTIFIED ARCHAEOLOGICAL SITE IS DISCOVERED WITHIN THE APPROVED CONSTRUCTION RIGHT-OF-WAY, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THAT AREA AND NOTIFY THE ENGINEER. THE CONTRACTOR SHOULD BE AWARE OF HIS/HER RESPONSIBILITIES UNDER THE HISTORIC PRESERVATION ACT OF 1966.

EMERGENCY CONTACT NUMBERS

FIRE/POLICE/AMBULANCE

SPECIFICATIONS

1. NM APWA, LATEST EDITION.

CONTACTS

RAYMOND SMITH P.E. SOUDER MILLER & ASSOCIATES 505.299.0942

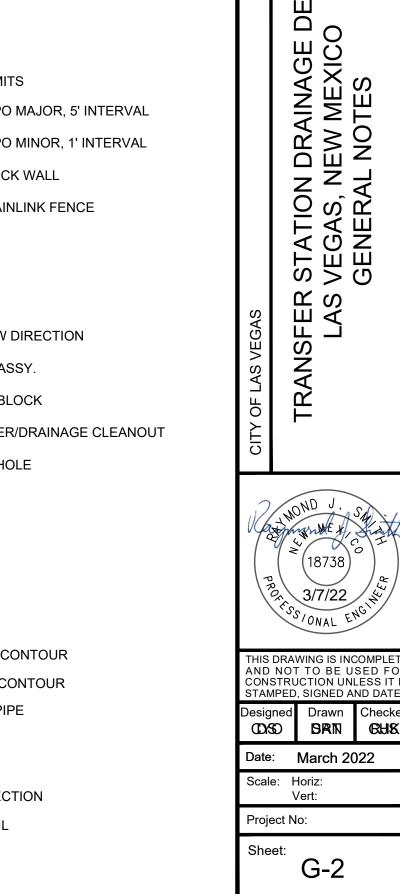
PROJECT MANAGER: MARVIN CORDOVA CITY OF LAS VEGAS 505.454.3832

MANAGER/SUPERVISOR: LUCAS MARQUEZ SOLID WASTE TRANSFER STATION 505.426.0350

LEGEND

EXISTING IMPROV	<u>/EMENTS</u>	EXIST	ING IMPROVEMENTS	PROPOSED IM	PROVEMENTS PROVEMENTS
	PROPERTY BOUNDARY		WATER METER		SWALE FLOW
	ADJACENT PROPERTY LINE	GM	GAS METER		DEMOLITION LIMITS
	- EASEMENT LINE		FIBER OPTIC PULLBOX	5545	PROPOSED TOPO MAJOR, 5' IN
	CONTOUR LINES, 1 FT. INTERVALS	<i>⇔</i>	POWER POLE		PROPOSED TOPO MINOR, 1' IN
OHT	OVERHEAD TELEPHONE LINE	TSI7E	TRAFFIC SIGNAL PULLBOX		PROPOSED BLOCK WALL
——— UGT ———	UNDERGROUND TELEPHONE LINE	3	ELECTRIC METER	-	PROPOSED CHAINLINK FENCE
——— UGE ———	- UNDERGROUND ELECTRICAL LINE	<u>—</u>)	GUY WIRE	—— w —	WATERLINE
OHE	OVERHEAD ELECTRIC LINE	(S)	SANITARY SEWER MANHOLE	s	SEWER LINE
——— E ———	UNDERGROUND ELECTRIC LINE		TREE	——— GAS —	——— GAS LINE
S	UNDERGROUND SANITARY SEWER LINE	wv 	WATER VALVE	-2. <u>0%</u>	DRAINAGE FLOW DIRECTION
G	UNDERGROUND GAS LINE	GV	GAS VALVE	7	FIRE HYDRANT ASSY.
W	UNDERGROUND WATER LINE	Т	TELEPHONE PEDESTAL	E	CAP & THRUST BLOCK
	- CHAINLINK FENCE		BOLLARD	CO	SANITARY SEWER/DRAINAGE (
	BLOCK WALL		SIGN	S	SANITARY MANHOLE
	- BUILDING SET BACK LINE	0	FOUND MONUMENT AS NOTED	WM I	WATER METER
	EXISTING BUILDING	•	SET #4 REBAR WITH CAP STAMPED PS 23.	200 GM	GAS METER
	CONTROL PONTS	МВ	MAILBOX	wv W	WATER VALVE
	WATER MANHOLE	0	LIFT STATION	GV •	GAS VALVE
X	FIRE HYDRANT		HOT BOX		SIGN
Q SPIG	SPIGOT		INDUSTRIAL SAMPLING CLEANOUT		NEW FINISHED MAJOR CONTOUR
ssco	CLEAN OUT		CABLE TV PEDESTAL		NEW FINISHED MINOR CONTOUR
EXISTING	CONCRETE	☼	STREET LIGHT		PROPOSED CULVERT PIPE
	FLOW DIRECTION	•	EXISTING CULVERT PIPE		PROPOSED ASPHALT
EXISTING			LAISTING COLVERT FIFE		PROPOSED RIP RAP PROPOSED FLOW DIRECTION
EXISTING M	IINOR CONTOUR				PROPOSED GUARD RAIL
EXISTING N	IAJOR CONTOUR				

Rev # Date Description							
	SOUDER, MILLER & ASSOCIATES	Engineering • Environmental • Surveying	Serving the Southwest & Rocky Mountains	▼ 5454 Venice Avenue NE, Suite D	Albuquerque, NM 87113	Phone (505) 299-0942 Toll-Free (877) 299-0942 Fax (505) 293-3430	moon all property of the second



CH8

SUMMARY OF QUANTITIES

ITEM NO.	ITEM	UNIT	BID LOT 1 DRAINAGE		BID LOT 2 PAVING		PROJECT TOTAL	
110.			ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL
4.01	CONSTRUCTION STAKING, COMPLETE	L.S.	1		0		1	
6.05	MOBILIZATION, COMPLETE	L.S.	1		0		1	
201.01	SITE CLEARING AND GRUBBING, COMPLETE	ACRE	8.1		0		8.1	
201.06	EROSION CONTROL, INCL. ALL LABOR, EQUIP & MATERIALS, CIP	L.S.	1		0		1	
1 204 01	FILL CONSTRUCTION, INCL EXCAVATION, PLACEMENT & COMPACTION OF UNCLASSIFIED MATERIAL, CIP	CU.YD.	195		0		195	
301.02	SUBGRADE PREP, 12" AT 95% COMPACTION, CIP	SQ.YD.	16561		0		16561	
302.01	AGGREGATE BASE COURSE, CRUSHED, 6" AT 95% COMPACTION CIP	SQ.YD.	16561		0		16561	
336.022	ASPHALT CONCRETE, 2 INCH THICK SUPERPAVE SP-IV	SQ.YD.	0		33122		33122	
336.12	TACK COAT, CATIONIC EMULSIFIED ASPHALT, CIP	SQ.YD.	0		16561		16561	
	EXISTING PAVEMENT, ASPHALT CONCRETE, REMOVE & DISPOSE, SAWCUT NOT REQUIRED, ANY THICKNESS, INCLUDING HAUL, COMPLETE.	SQ.YD.	16561		0		16561	
	GUARDRAIL WITH POSTS, METAL BEAM, EXCEPT END ANCHORS, CIP	LF	287.5		0		287.5	
401.02	GUARDRAIL END ANCHOR, CIP	EACH	2		0		2.0	
440.001	REFLECTORIZED PAINTED MARKINGS, 4" WIDTH, CIP	LF	0		1800		1800	
440.01	REFLECTORIZED PAINTED MARKING, HANDICAP SYMBOL	EACH	0		5		5	
603.03	PLAIN RIPRAP, CIP	CU.YD.	348		0		348	
701.1	TRENCHING BACKFILL AND COMPACTION FOR 18" TO 36" SEWER PIPE, UP TO 8' IN DEPTH, PIPE NOT INCLUDED, COMPLETE.	LF	175		0		175	
910.103	DRAINLINE REMOVAL, 10" TO 18", EXCLUDING TRENCHING, COMPLETE	LF	240		0		240	
910.0X	18" STORM PIPE END SECTION, CIP	EACH	4		0		4	
912.01	HIGH PERFORMANCE STORM PIPE, FURNISH AND PLACE IN OPEN TRENCH, CIP	LF	175		0		175	
1011.01	SEEDING, CLASS A, NATIVE, CIP	ACRE	8.1		0		8	

RELOCATION OF EXISTING LIGHT POLE SHALL BE CONSIDERED INCIDENTAL TO COMPLETION OF PROJECT SHEET $C\!-\!13$

ES Rev # Date Description By Chk'd

-3430

SOUDER, MILLER & ASSOCIATI

Engineering • Environmental • Surveying

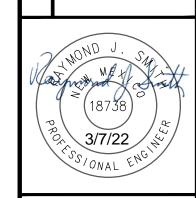
Serving the Southwest & Rocky Mountains

5454 Venice Avenue NE, Suite D

Albuquerque, NM 87113

LAS VEGAS AGE DESIGN

NSFER STATION DRAINA LAS VEGAS, NEW MEX



THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed Drawn Checked

DSD BRN CHS

Designed Drawn Che

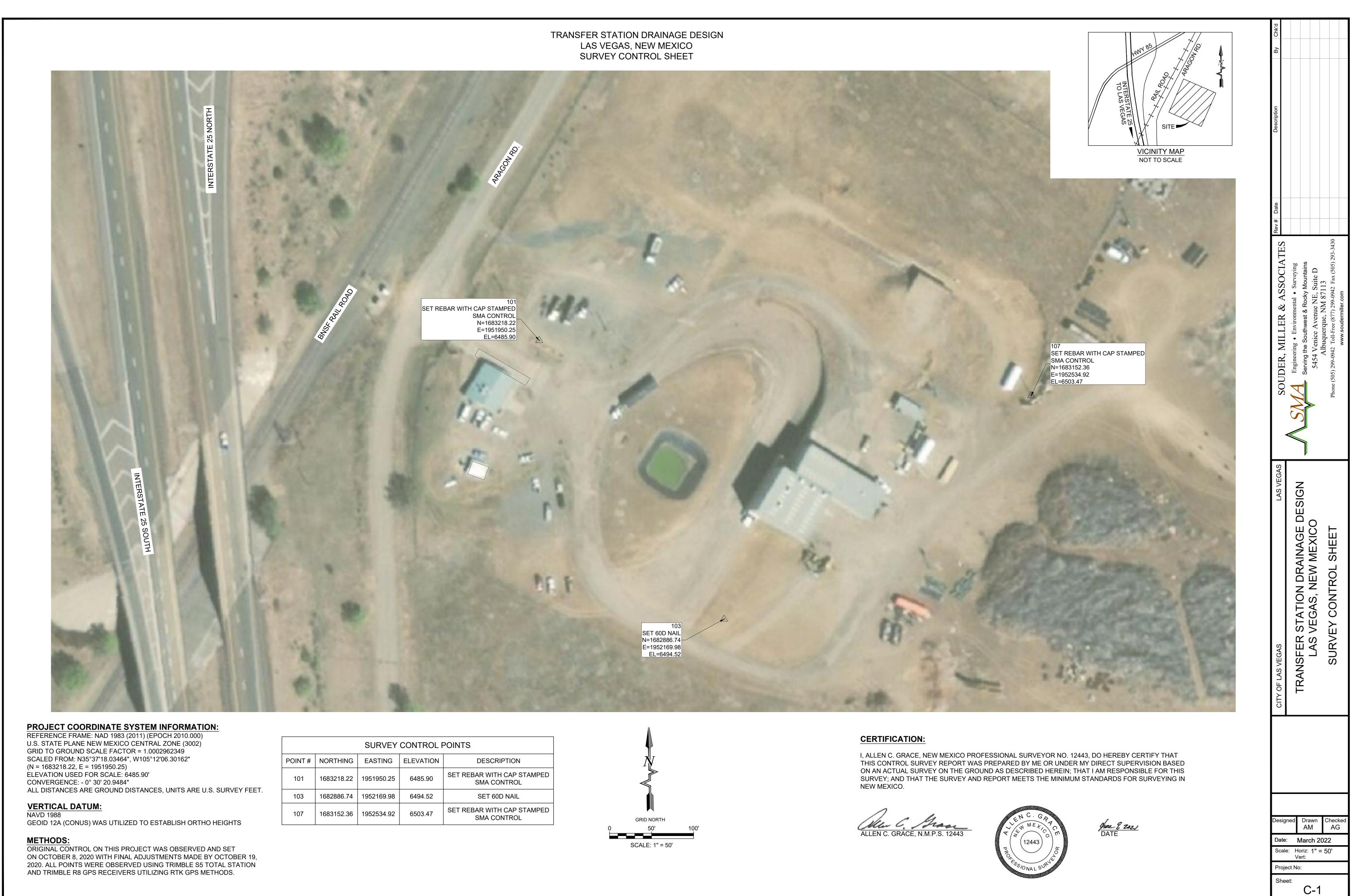
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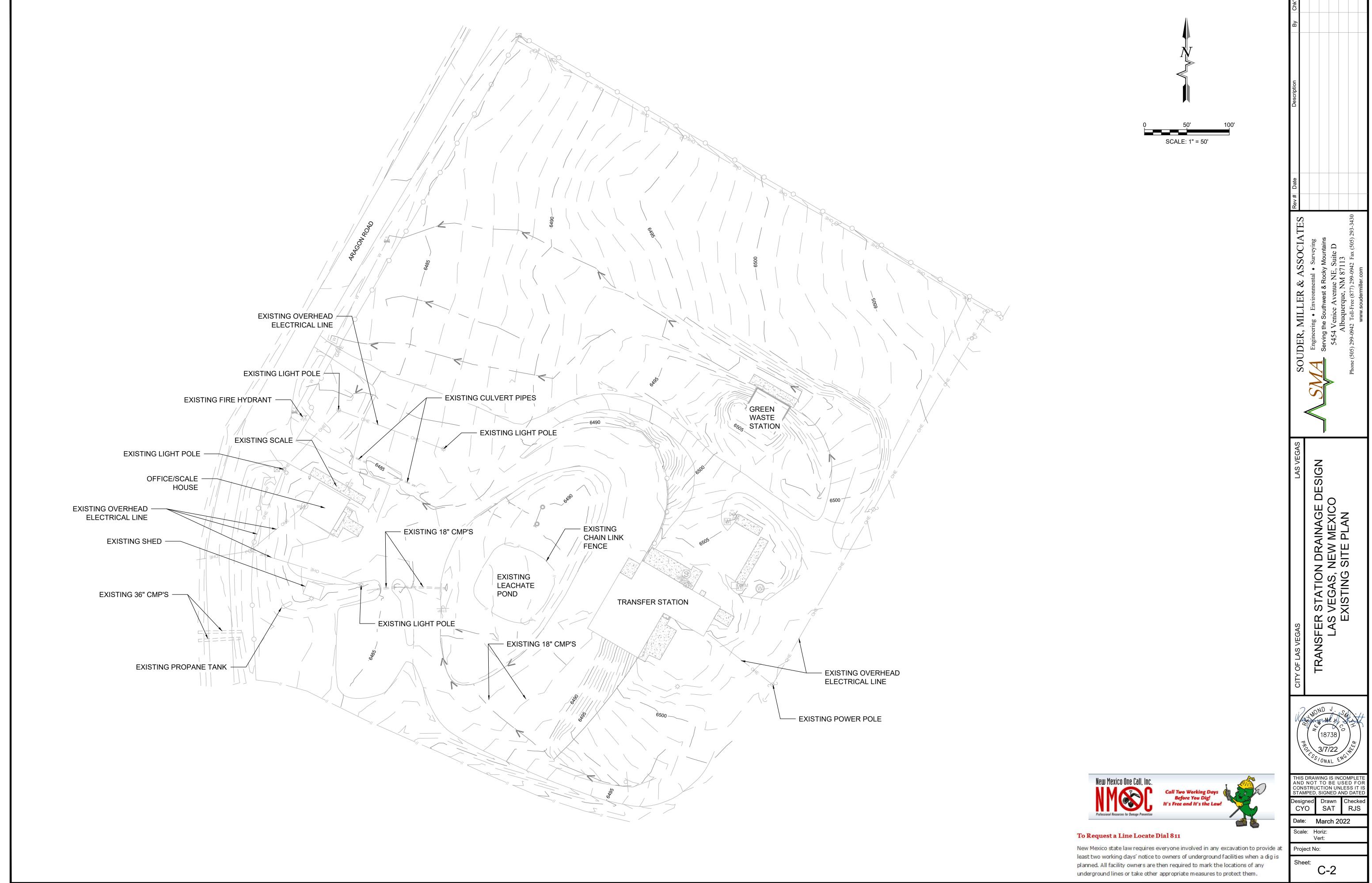
Date: March 2022

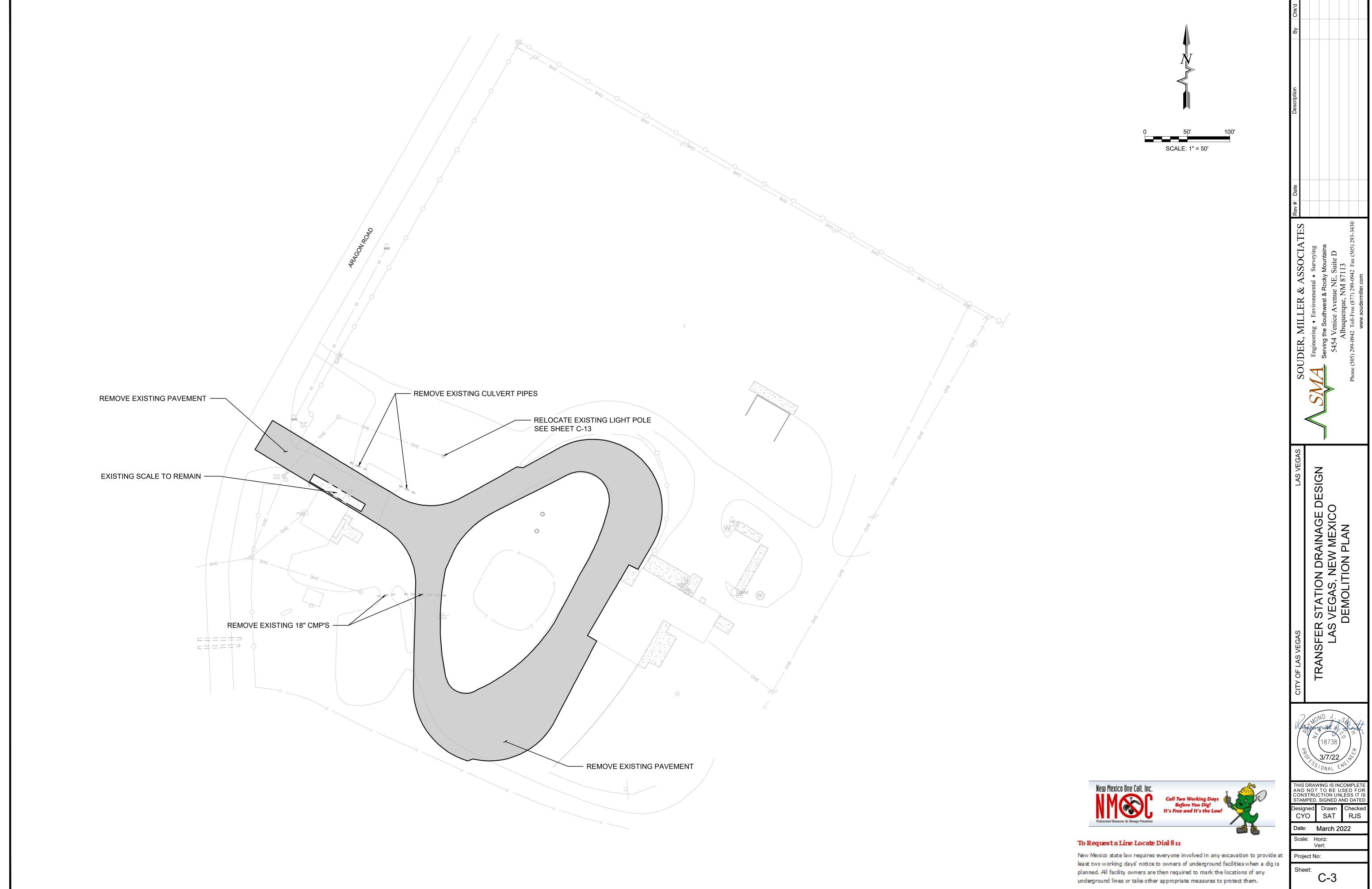
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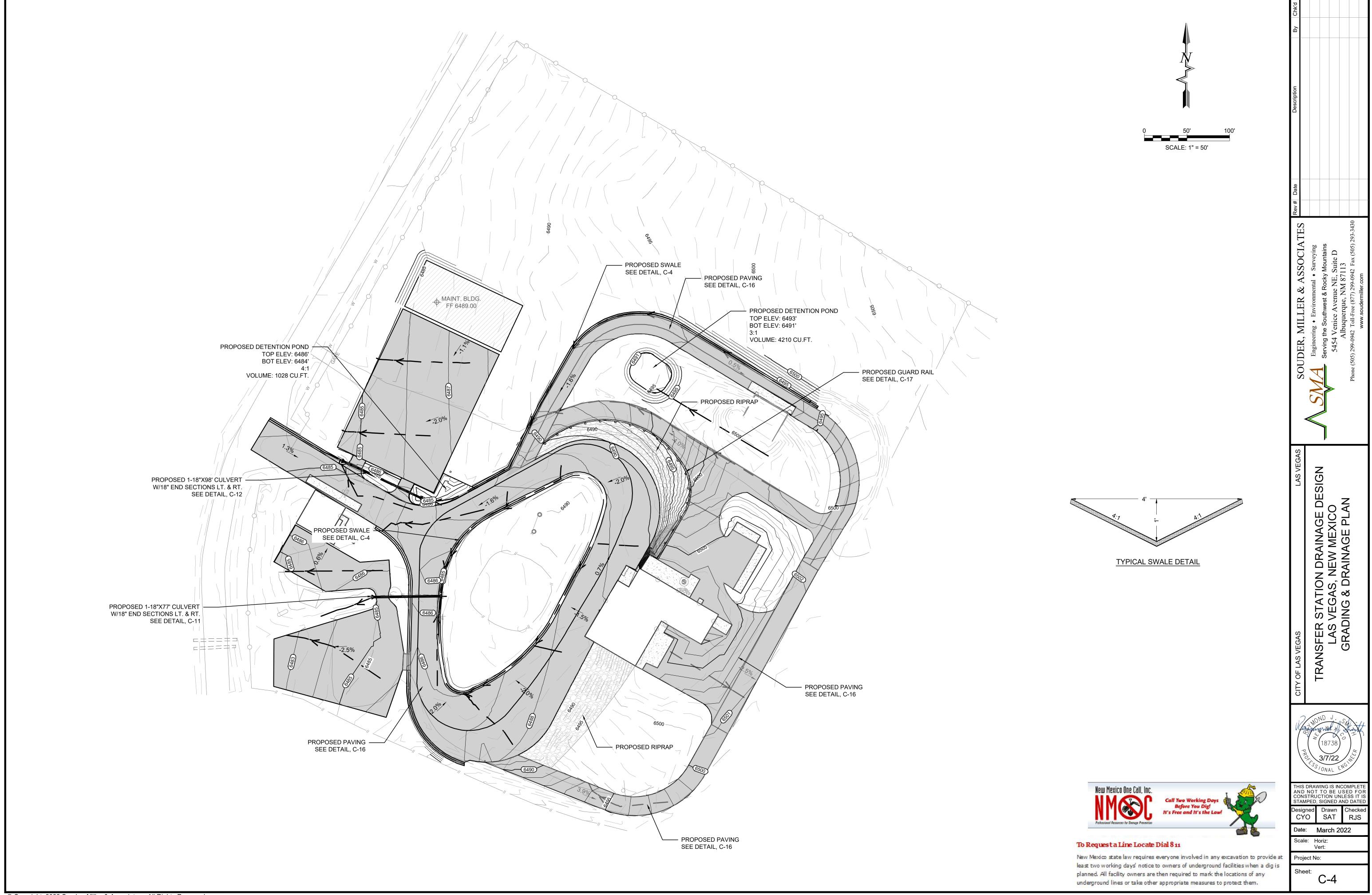
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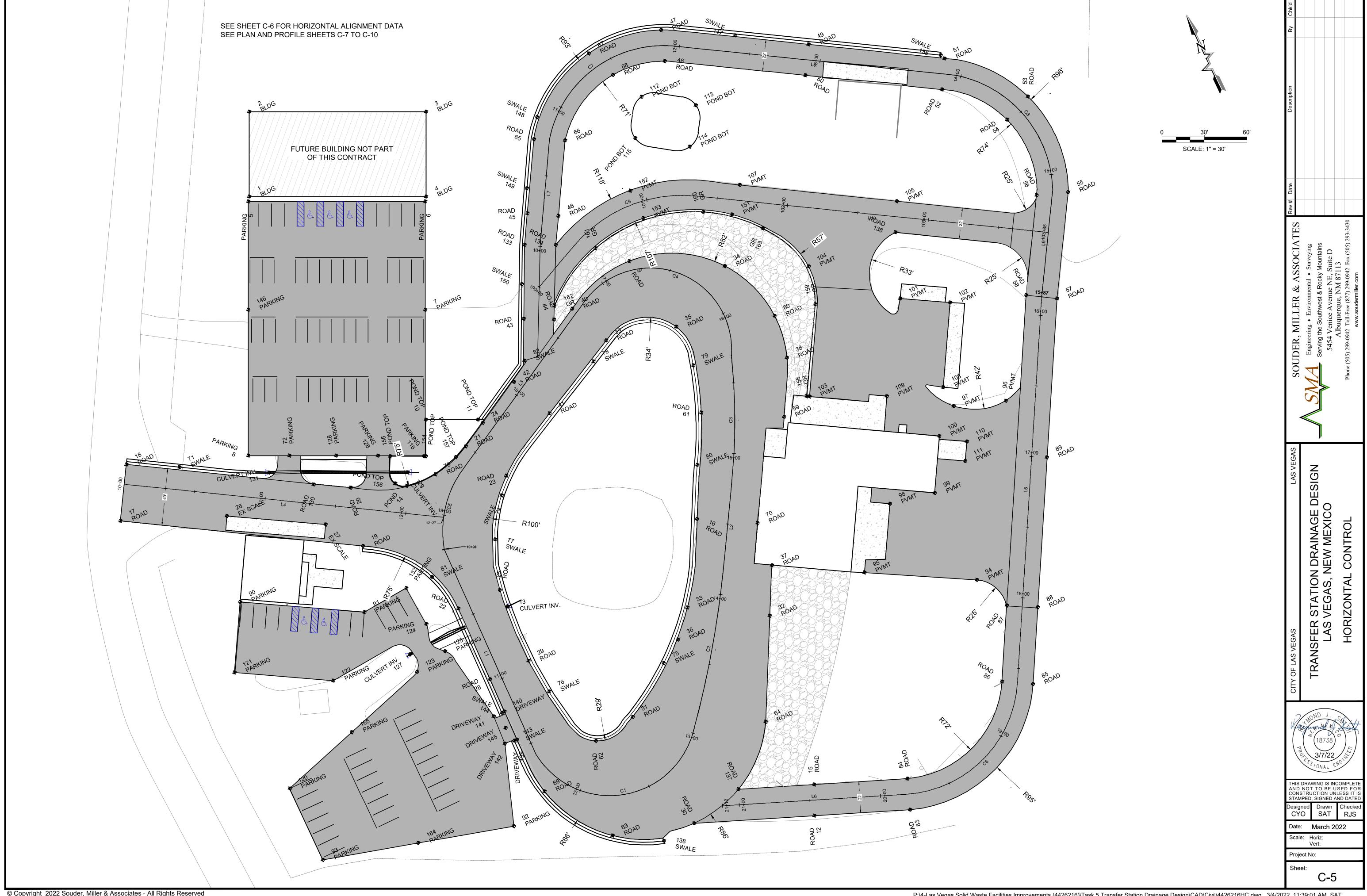
Sheet: G-3











		Point T	able					Point Ta	ble
Point #	Elevation	Northing	Easting	Description		Point #	Elevation	Northing	Easting
1	6489.00	1683405.67	1951989.40	BLDG		51	6494.67	1683283.61	1952475.20
2	6489.00	1683459.89	1952015.09	BLDG		52	6494.70	1683264.57	1952464.17
3	6489.00	1683406.37	1952128.06	BLDG		53	6497.64	1683234.12	1952516.88
4	6489.00	1683352.15	1952102.37	BLDG		54	6497.23	1683225.53	1952496.60
5	6485.80	1683402.78	1951987.36	PARKING		55	6500.45	1683160.81	1952513.65
6	6488.30	1683349.28	1952100.33	PARKING		56	6500.13	1683168.46	1952492.56
7	6487.91	1683280.10	1952067.57	PARKING		57	6502.24	1683096.28	1952474.49
8	6484.50	1683240.50	1951910.50	PARKING		58	6502.05	1683107.69	1952455.68
9	6489.76	1683249.38	1952212.64	ROAD		59	6489.78	1683103.30	1952264.31
10	6486.45	1683209.79	1952034.82	POND TOP		60	6490.22	1683170.55	1952288.84
11	6487.62	1683194.03	1952068.09	POND TOP		61	6488.63	1683130.91	1952212.75
12	6492.43	1682839.40	1952163.01	ROAD		62	6485.87	1682953.16	1952046.16
13	6484.07	1683065.71	1952030.57	CULVERT INV.		63	6486.24	1682887.74	1952028.31
14	6486.12	1683173.25	1952002.47	POND		64	6488.49	1682914.10	1952160.32
15	6491.82	1682859.33	1952172.43	ROAD		65	6492.01	1683356.17	1952188.54
16	6488.06	1683064.29	1952177.90	ROAD		66	6491.58	1683345.93	1952208.13
17	6484.35	1683237.48	1951809.21	ROAD		67	6492.50	1683394.41	1952249.56
18	6483.55	1683271.67	1951829.97	ROAD		68	6492.27	1683373.36	1952258.52
19	6485.78	1683148.16	1951956.40	ROAD		69	6486.23	1682936.48	1951998.10
20	6485.70	1683189.01	1951966.18	ROAD		70	6488.11	1683043.51	1952215.24
21	6487.70	1683180.72	1952052.13	ROAD		71	6483.55	1683253.93	1951863.06
22	6486.16	1683079.32	1951998.39	ROAD		72	6485.39	1683228.02	1951936.84
23	6486.87	1683149.61	1952069.19	ROAD		73	6486.97	1683171.94	1952024.31
24	6487.62	1683190.56	1952070.07	ROAD		74	6486.16	1683138.60	1952060.27
25	6486.25	1683078.62	1952030.45	ROAD		75	6486.63	1682982.37	1952112.99
26	6485.20	1683208.42	1951878.54	EX SCALE		76	6485.06	1682998.84	1952031.26
27	6485.23	1683173.16	1951939.18	EX SCALE		77	6485.36	1683112.36	1952042.77
28	6485.70	1683024.68	1951997.21	ROAD		78	6487.67	1683196.29	1952159.38
29	6485.53	1683024.72	1952027.43	ROAD		79	6488.36	1683163.57	1952221.85
30	6489.11	1682870.95	1952083.92	ROAD		80	6487.85	1683098.71	1952194.38
31	6486.49	1682957.49	1952076.90	ROAD		81	6485.23	1683107.40	1951991.21
32	6488.79	1682980.59	1952195.07	ROAD		82	6489.39	1683217.74	1952115.46
33	6487.61	1683010.65	1952144.98	ROAD		83	6495.03	1682814.23	1952225.97
34	6490.23	1683217.48	1952271.98	ROAD		84	6494.82	1682834.83	1952233.68
35	6489.09	1683193.42	1952222.72	ROAD		85	6499.92	1682857.38	1952342.41
36	6487.36	1682993.08	1952129.24	ROAD		86	6500.08	1682868.33	1952323.41
37	6489.00	1683012.07	1952211.72	ROAD		87	6501.40	1682915.51	1952349.54
38	6490.20	1683140.15	1952284.08	ROAD		88	6500.44	1682904.95	1952368.74
39	6488.38	1683205.83	1952173.86	ROAD		89	6501.32	1682997.95	1952419.86
40	6489.08	1683236.28	1952161.74	ROAD		90	6486.62	1683149.43	1951861.10
41	6487.60	1683176.41	1952115.54	ROAD		91	6486.35	1683105.37	1951937.27
42	6488.09	1683207.16	1952102.54	ROAD		92	6486.78	1682923.62	1951967.95
43	6490.19	1683244.55	1952127.85	ROAD		93	6482.53	1682959.86	1951835.79
44	6489.36	1683235.00	1952146.82	ROAD		94	6502.09	1682940.88	1952338.10
45	6491.12	1683310.88	1952162.02	ROAD		95	6504.75	1682979.51	1952268.53
46	6491.22	1683299.76	1952181.00	ROAD		96	6502.70	1683046.52	1952410.79
47	6492.82	1683387.43	1952302.83	ROAD		97	6505.22	1683058.91	1952375.85
48	6492.42	1683366.47	1952295.73	ROAD		98	6504.68	1683015.72	1952305.75
49	6493.58	1683333.74	1952392.59	ROAD		99	6504.31	1683009.11	1952337.52
50	6493.70	1683314.94	1952381.17	ROAD		100	6506.43	1683044.04	1952357.70
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		Point Ta	ble	
Point #	Elevation	Northing	Easting	Description
51	6494.67	1683283.61	1952475.20	ROAD
52	6494.70	1683264.57	1952464.17	ROAD
53	6497.64	1683234.12	1952516.88	ROAD
54	6497.23	1683225.53	1952496.60	ROAD
55	6500.45	1683160.81	1952513.65	ROAD
56	6500.13	1683168.46	1952492.56	ROAD
57	6502.24	1683096.28	1952474.49	ROAD
58	6502.05	1683107.69	1952455.68	ROAD
59	6489.78	1683103.30	1952264.31	ROAD
60	6490.22	1683170.55	1952288.84	ROAD
61	6488.63	1683130.91	1952212.75	ROAD
62	6485.87	1682953.16	1952046.16	ROAD
63	6486.24	1682887.74	1952028.31	ROAD
64	6488.49	1682914.10	1952160.32	ROAD
65	6492.01	1683356.17	1952188.54	ROAD
66	6491.58	1683345.93	1952208.13	ROAD
67	6492.50	1683394.41	1952249.56	ROAD
68	6492.27	1683373.36	1952258.52	ROAD
69	6486.23	1682936.48	1951998.10	ROAD
70	6488.11	1683043.51	1952215.24	ROAD
71	6483.55	1683253.93	1952213.24	SWALE
72	6485.39	1683228.02	1951936.84	PARKING
73	6486.97	1683171.94	1952024.31	ROAD
74	6486.16	1683138.60	1952060.27	SWALE
75	6486.63	1682982.37	1952112.99	SWALE
76	6485.06	1682998.84	1952031.26	SWALE
77	6485.36	1683112.36	1952042.77	SWALE
78	6487.67	1683196.29	1952159.38	SWALE
79	6488.36	1683163.57	1952221.85	SWALE
80	6487.85	1683098.71	1952194.38	SWALE
81	6485.23	1683107.40	1951991.21	SWALE
82	6489.39	1683217.74	1952115.46	SWALE
83	6495.03	1682814.23	1952225.97	ROAD
84	6494.82	1682834.83	1952233.68	ROAD
85	6499.92	1682857.38	1952342.41	ROAD
86	6500.08	1682868.33	1952323.41	ROAD
87	6501.40	1682915.51	1952349.54	ROAD
88	6500.44	1682904.95	1952368.74	ROAD
89	6501.32	1682997.95	1952419.86	ROAD
90	6486.62	1683149.43	1951861.10	PARKING
91	6486.35	1683105.37	1951937.27	PARKING
92	6486.78	1682923.62	1951967.95	PARKING
93	6482.53	1682959.86	1951835.79	PARKING
94	6502.09	1682940.88	1952338.10	PVMT
95	6504.75	1682979.51	1952268.53	PVMT
96	6502.70	1683046.52	1952410.79	PVMT
97	6505.22	1683058.91	1952375.85	PVMT
	6504.68	1683015.72	1952305.75	PVMT
98				
98 99	6504.31	1683009.11	1952337.52	PVMT

		Point T	able	
Point #	Elevation	Northing	Easting	Description
101	6505.31	1683143.63	1952374.24	PVMT
102	6505.50	1683126.13	1952404.90	PVMT
103	6506.11	1683108.55	1952286.74	PVMT
104	6500.14	1683191.86	1952325.52	PVMT
105	6502.73	1683206.88	1952401.52	PVMT
107	6496.10	1683264.78	1952306.11	PVMT
108	6505.53	1683074.04	1952374.84	PVMT
109	6506.42	1683085.41	1952336.15	PVMT
110	6505.99	1683032.21	1952373.68	PVMT
111	6506.23	1683020.20	1952366.59	PVMT
112	6491.02	1683350.72	1952269.98	POND BOT
113	6491.00	1683328.84	1952302.16	POND BOT
114	6491.00	1683304.32	1952285.80	POND BOT
115	6491.00	1683326.20	1952253.63	POND BOT
116	6486.16	1683186.99	1952022.50	PARKING
120	6482.34	1683015.36	1951836.38	PARKING
121	6484.38	1683106.15	1951836.06	PARKING
122	6486.07	1683071.10	1951896.65	PARKING
123	6484.89	1683051.41	1951952.88	PARKING
124	6485.69	1683079.08	1951973.28	PARKING
125	6485.22	1683056.08	1951977.05	PARKING
126	6486.41	1683201.28	1951993.30	PARKING
127	6483.30	1683064.70	1951953.58	CULVERT INV.
128	6485.59	1683213.92	1951966.62	PARKING
129	6484.00	1683181.62	1952007.29	CULVERT INV.
130	6485.31	1683202.32	1951943.53	ROAD
131	6483.51	1683223.36	1951918.62	CULVERT INV.
132	6486.14	1683108.09	1951971.36	PARKING
133	6491.16	1683291.49	1952150.67	ROAD
134	6491.50	1683282.03	1952170.62	ROAD
135	6493.56	1683286.81	1952473.77	SWALE
136	6502.32	1683187.49	1952391.23	ROAD
137	6488.18	1682879.27	1952122.44	ROAD
138	6485.73	1682868.83	1952059.44	SWALE
139	6486.06	1682977.84	1951996.18	DRIVEWAY
140	6485.89	1682999.54	1951996.66	DRIVEWAY
141	6485.43	1682999.71	1951988.37	DRIVEWAY
142	6485.75	1682979.05	1951987.23	DRIVEWAY
143	6485.56	1682977.89	1951994.18	SWALE
144	6485.39	1682999.58	1951994.66	SWALE
145	6485.97	1682988.86	1951992.42	DRIVEWAY
146	6485.24	1683333.60	1951954.60	PARKING
147	6492.82	1683361.71	1951934.00	SWALE
147				
	6491.22	1683369.29	1952197.25	SWALE
149	6490.71	1683326.93	1952169.29	SWALE
150	6489.42	1683267.29	1952137.00	SWALE
151	6495.58	1683248.19	1952292.36	PVMT
152	6493.45	1683294.05	1952234.59	PVMT

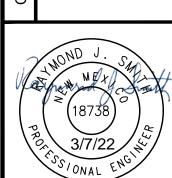
Alignment - Entrance Alignment - Inner Loop Green Waste LOOP GREEN WASTE LOOP2 **OUTER LOOP**

Number	Radius	Length	Line/Chord Direction
L4		226.77	S58° 44' 52.80"E
C5	73.83	62.47	S39° 27' 54.76"W
C4	57.48	151.29	N45° 34' 20.12"W
С3	439.50	91.01	N25° 15' 30.84"E
C2	700.94	114.69	N35° 44' 27.30"E
C1	61.11	144.74	S73° 54' 59.12"E
L3		141.31	S61° 15' 07.20"W
L2		60.22	N30° 51' 18.30"E
L1		158.63	S1° 15' 07.20"W
C8	84.89	114.70	S14° 55' 42.60"E
C7	82.36	118.94	N78° 06' 06.07"E
L9		76.00	S31° 15' 07.20"W
L8		201.27	S58° 44' 52.80"E
L7		76.01	N30° 21' 05.05"E
C6	84.00	121.42	S70° 20' 08.65"W
L6		130.13	N68° 15' 21.23"W
L5		273.46	S28° 55' 38.52"W
C9	100.00	97.33	S86° 37' 46.59"E
L10		249.55	S58° 44' 52.80"E

SOUDER, MILLER & ASSOCIATES

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Albuquerque, NM 87113
Phone (505) 299-0942 Toll-Free (877) 299-0942 Fax (505) 293-3430

TRANSFER STATION DRAINAGE DESIG LAS VEGAS, NEW MEXICO



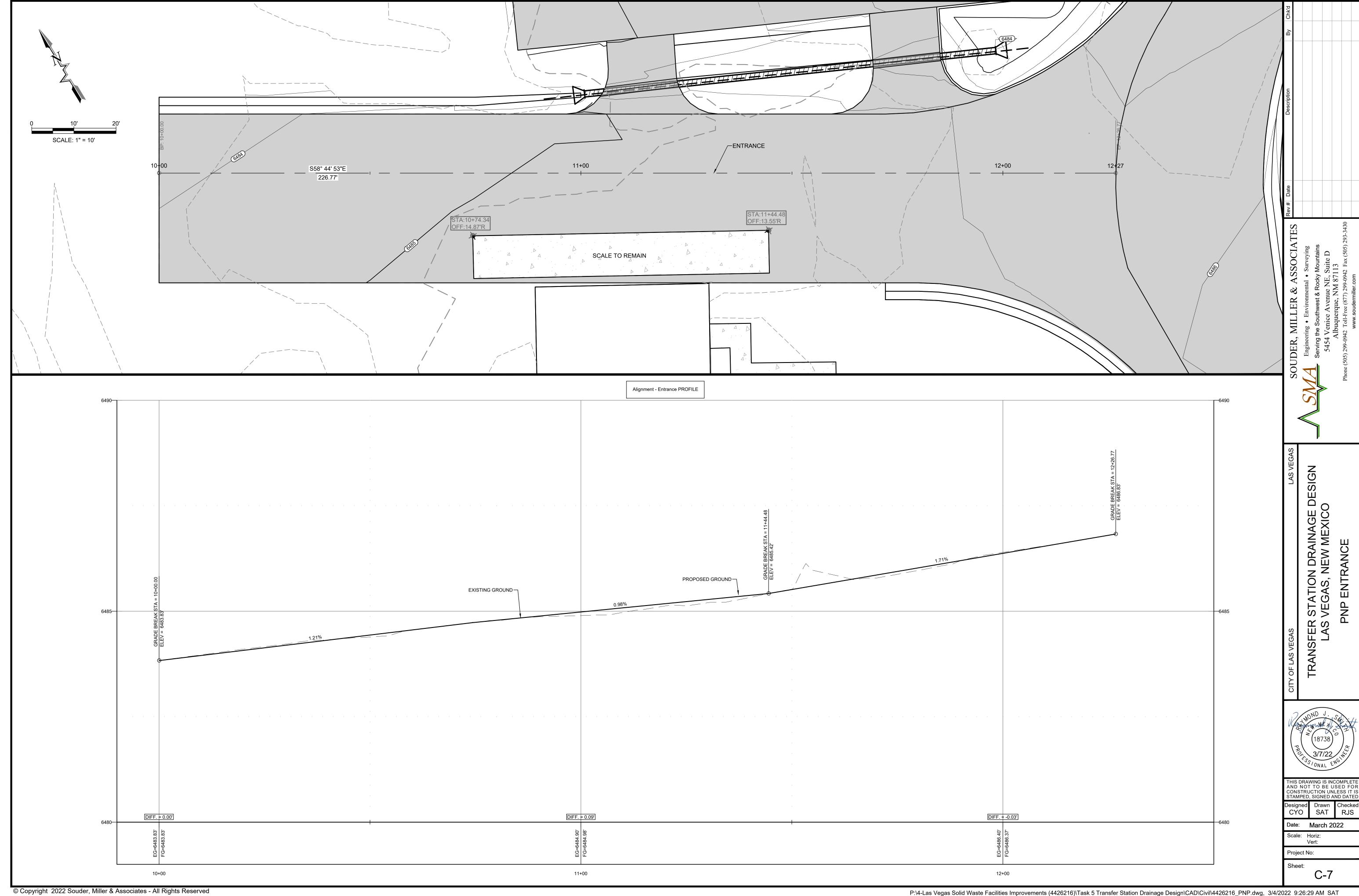
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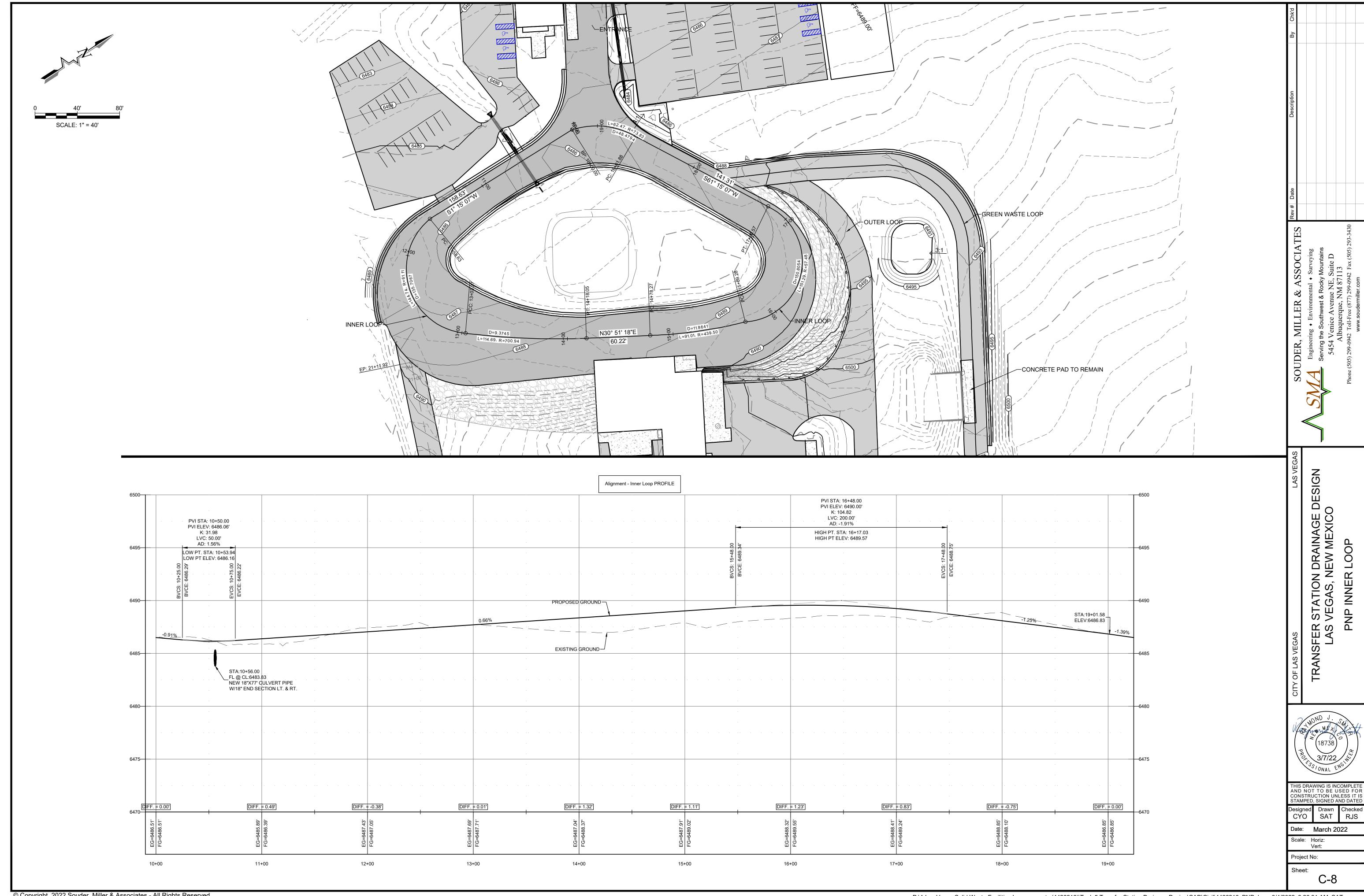
Date: March 2022 Scale: Horiz: Vert:

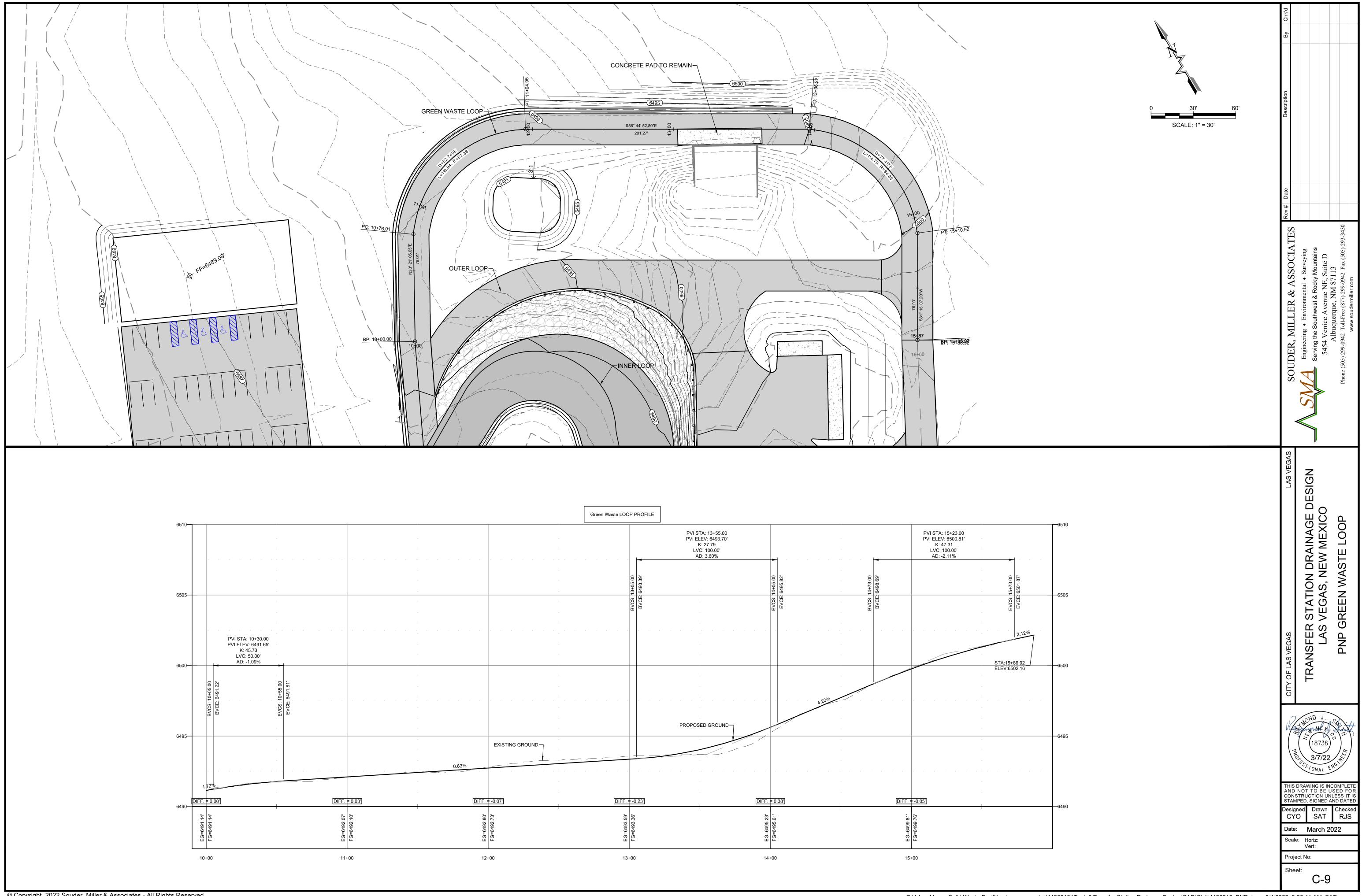
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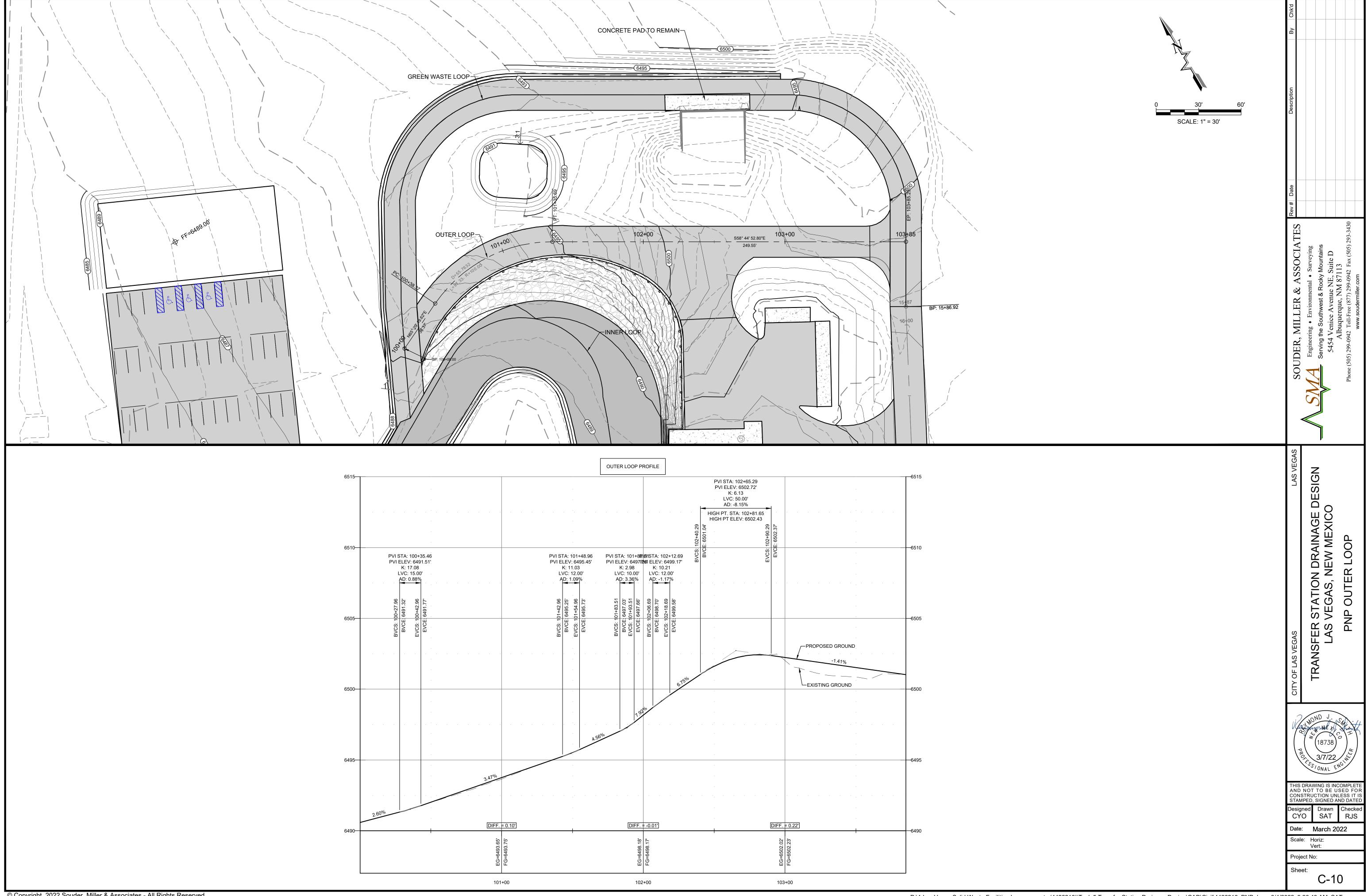
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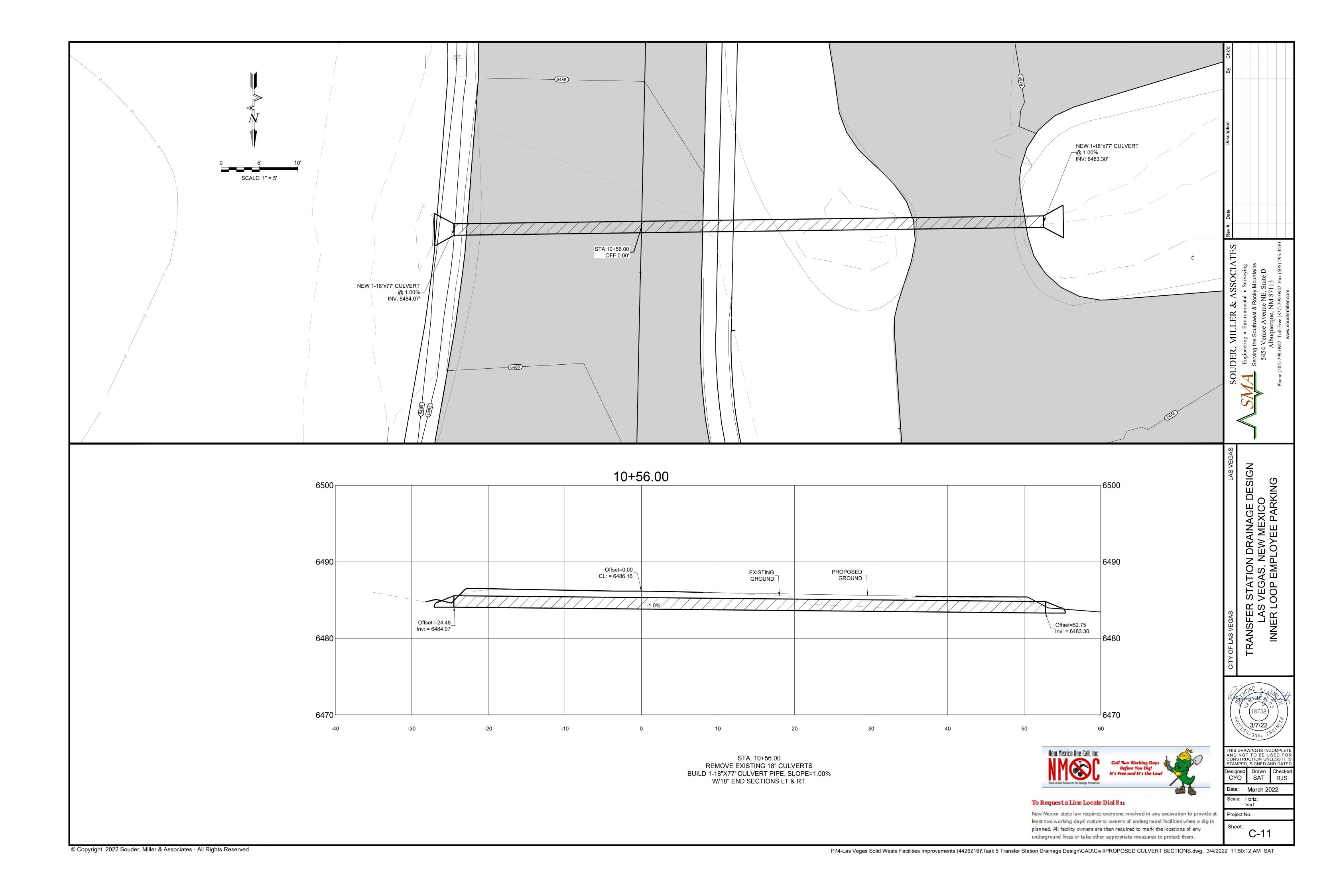
Point Table								
Point #	Elevation	Northing	Easting	Description				
155	6485.50	1683197.10	1952000.92	POND TOP				
156	6486.64	1683178.25	1951995.88	POND TOP				
157	6487.14	1683176.84	1952042.55	POND TOP				
158	6506.07	1683109.60	1952284.97	GR				
159	6501.79	1683165.67	1952318.30	GR				
160	0.00	1683258.59	1952274.66	GR				
161	6491.35	1683267.91	1952194.91	GR				
162	6489.87	1683243.54	1952151.29	GR				
163	6495.98	1683230.01	1952307.77	GR				
164	6484.65	1682941.74	1951901.87	PARKING				
165	6483.61	1683032.54	1951892.93	PARKING				

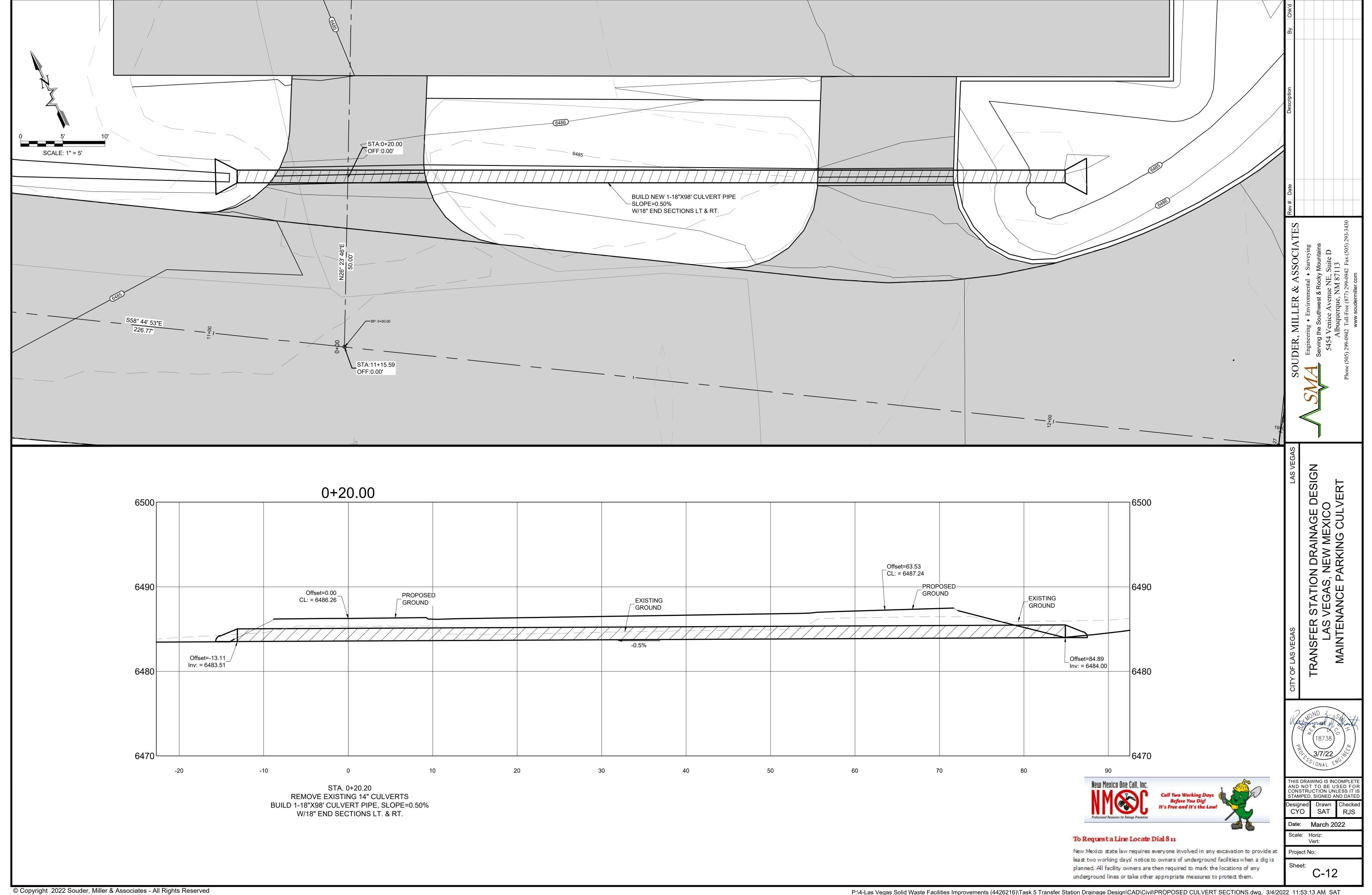


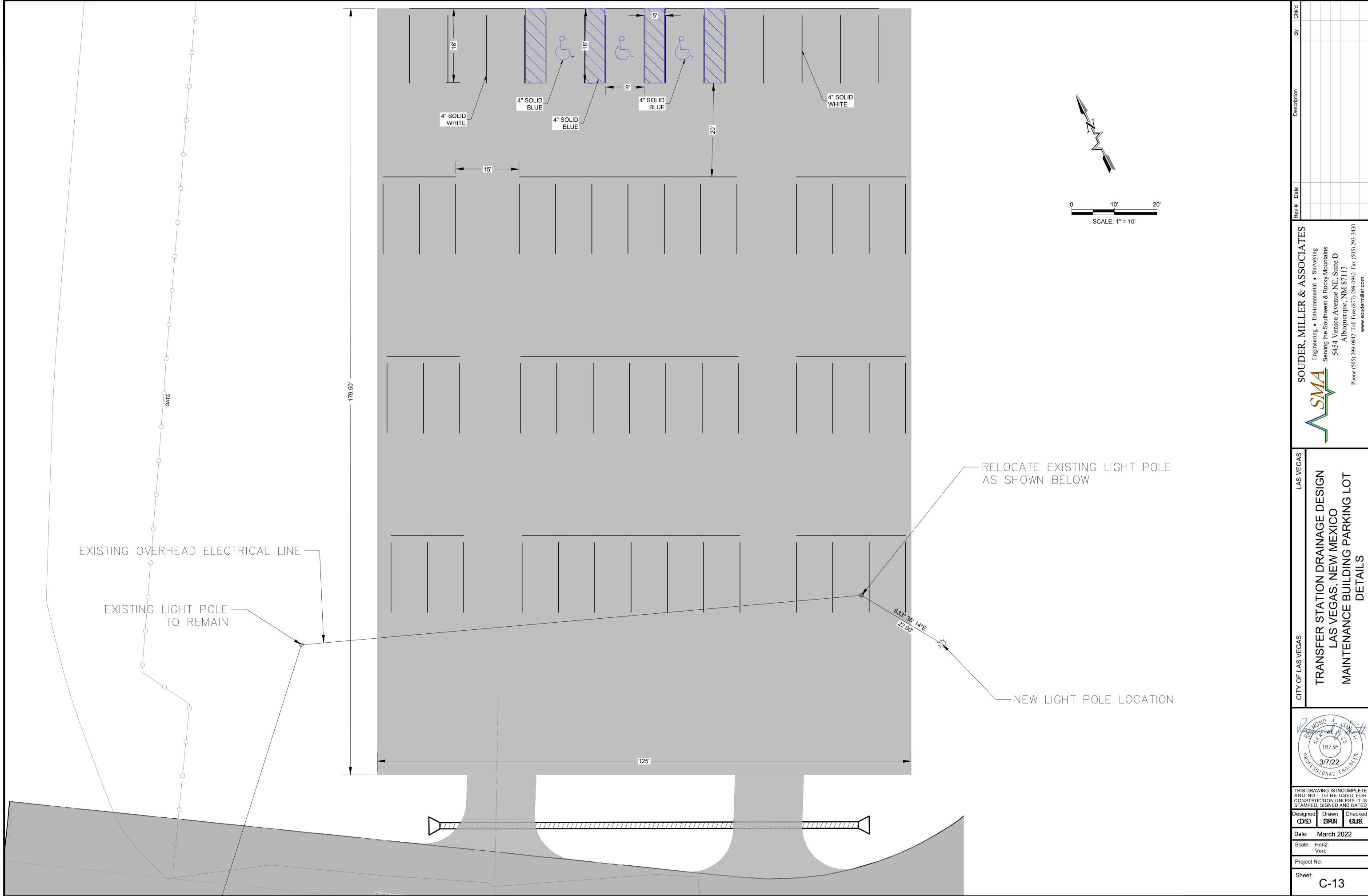






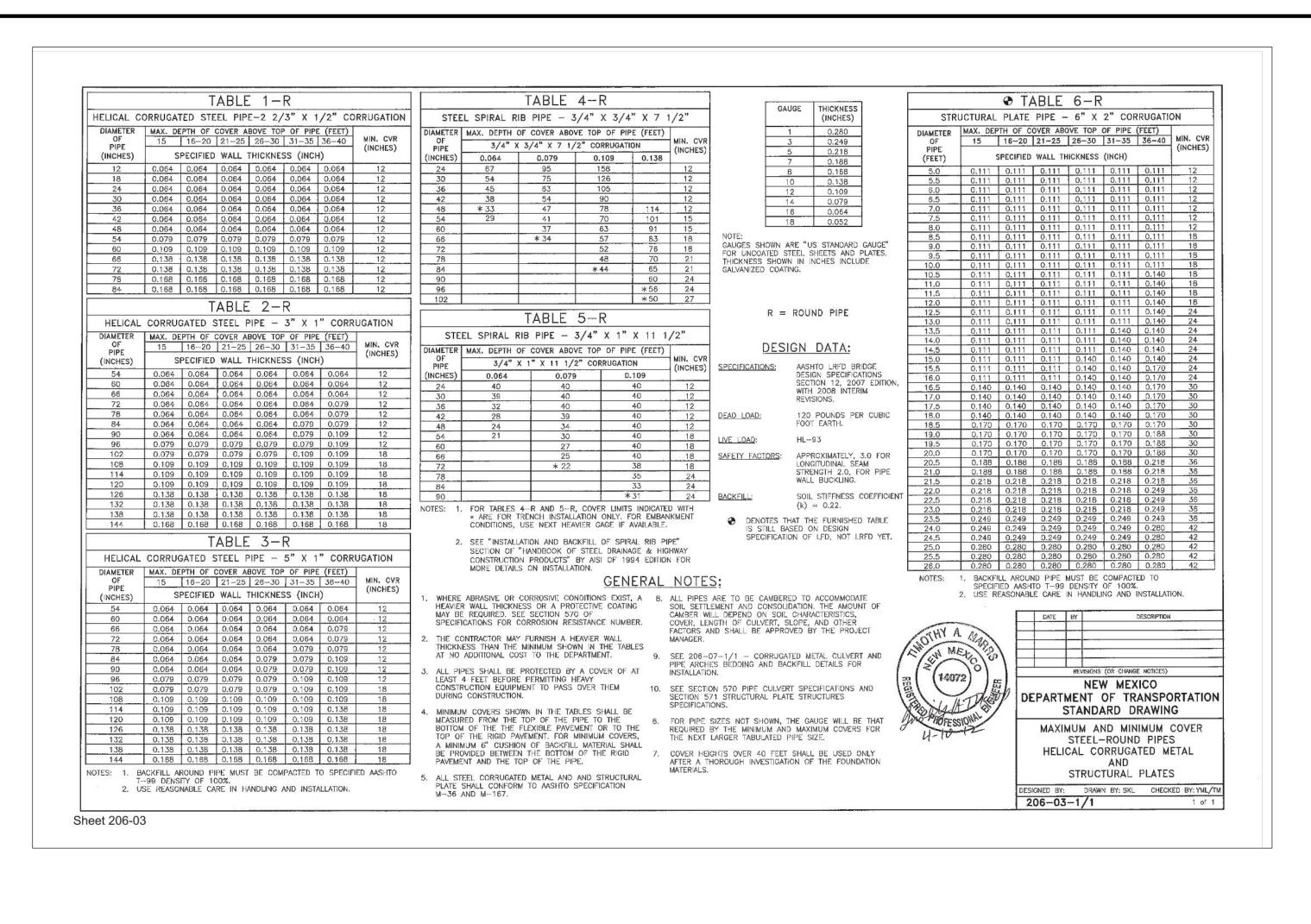


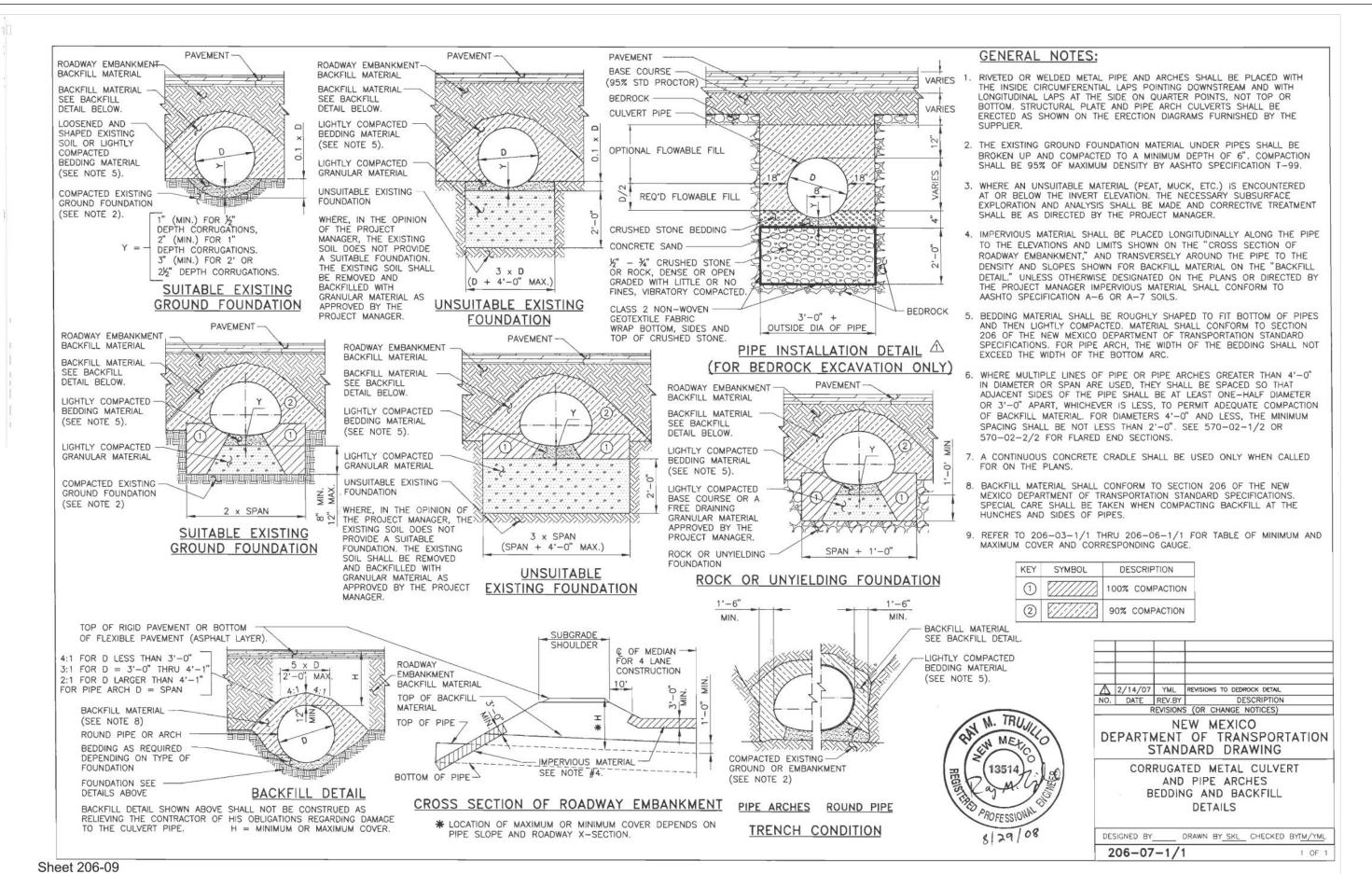


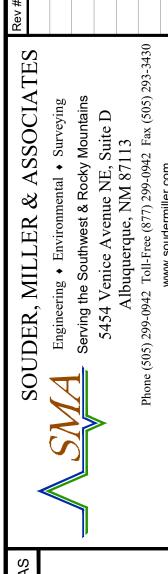


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SIGN DRAINAGE DE NEW MEXICO DUS DETAILS STATION C VEGAS, NE SELLANEOL SFER LAS

Jangret H (18738) 3/7/22 /ONAL

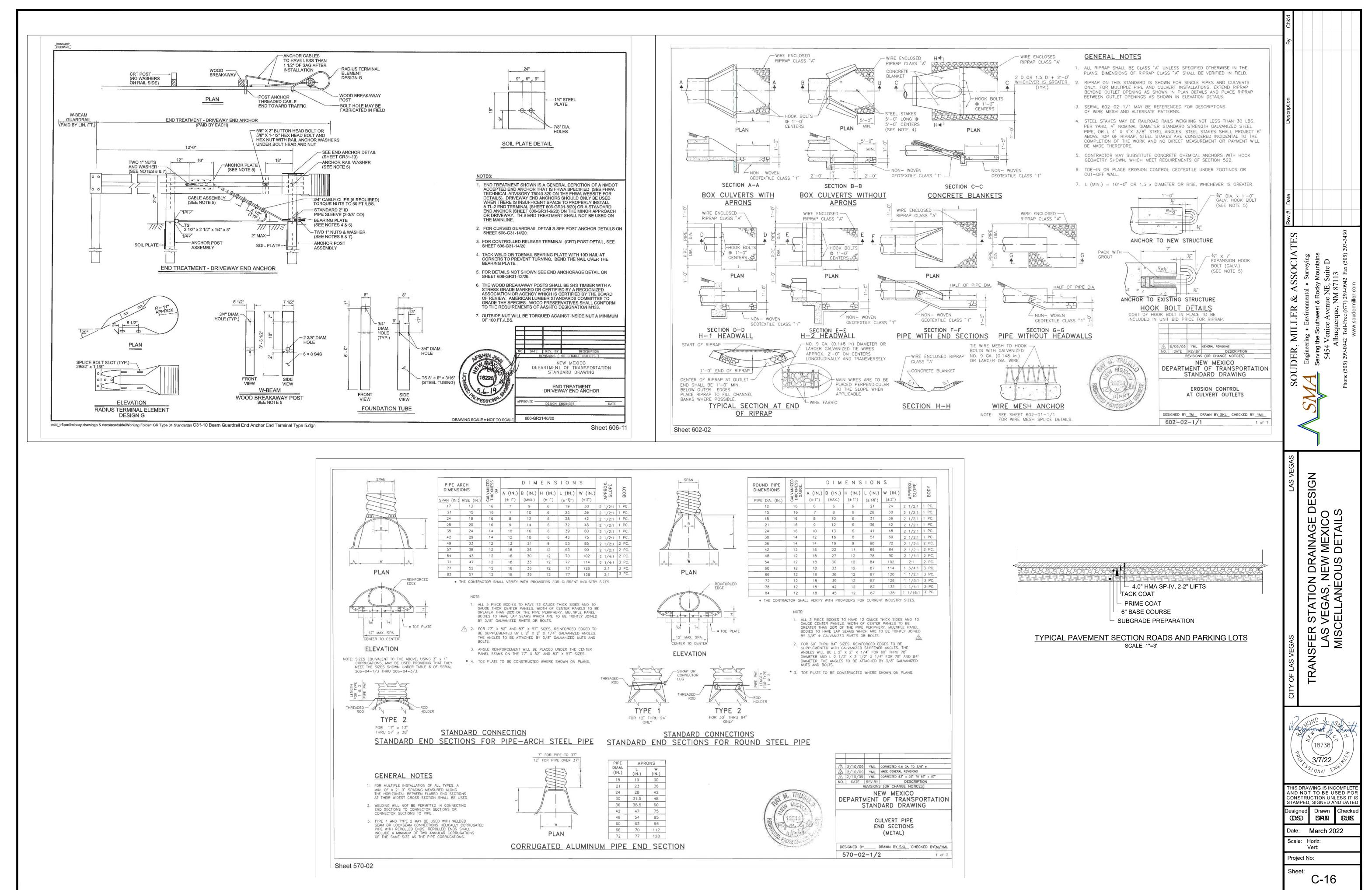
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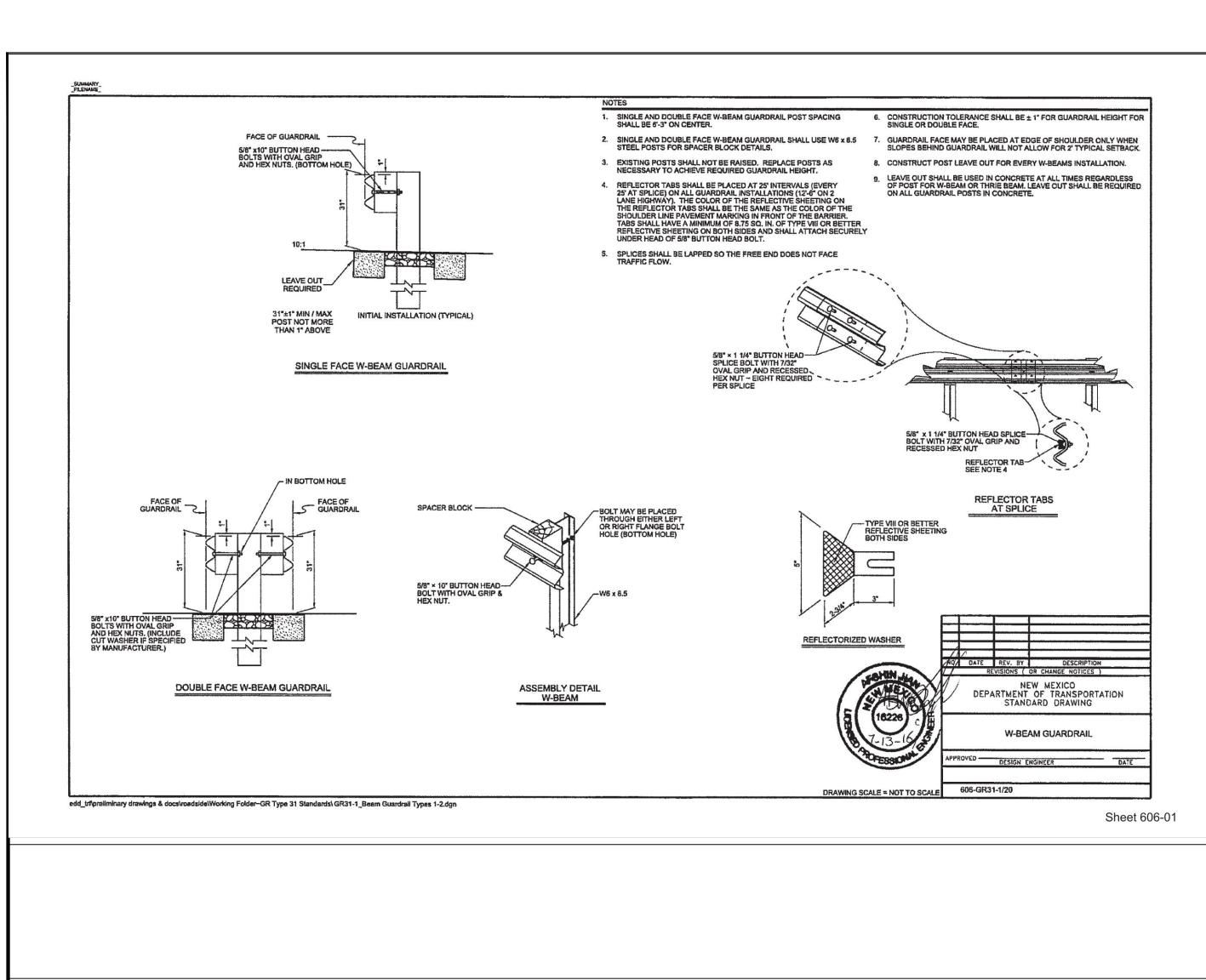
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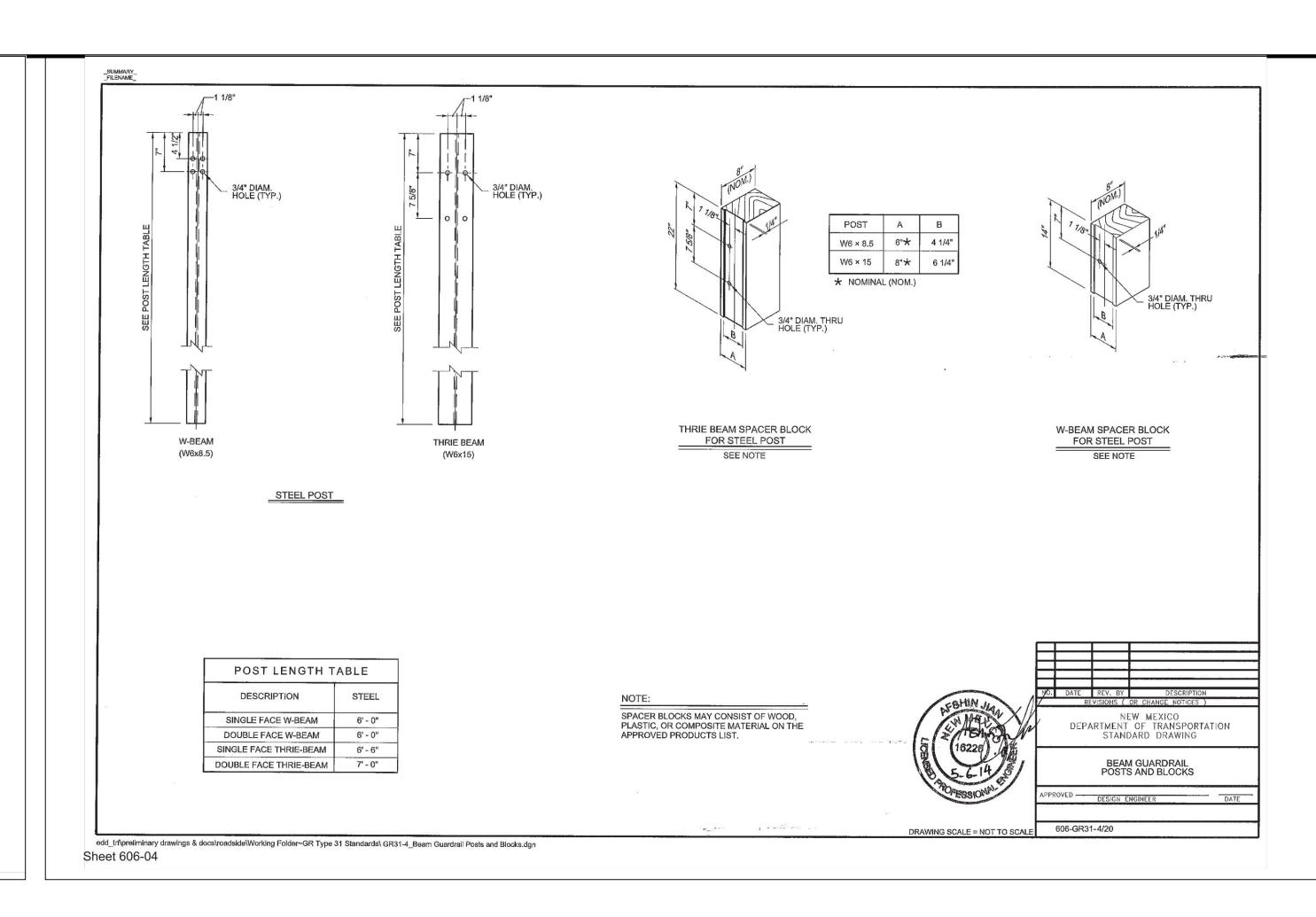
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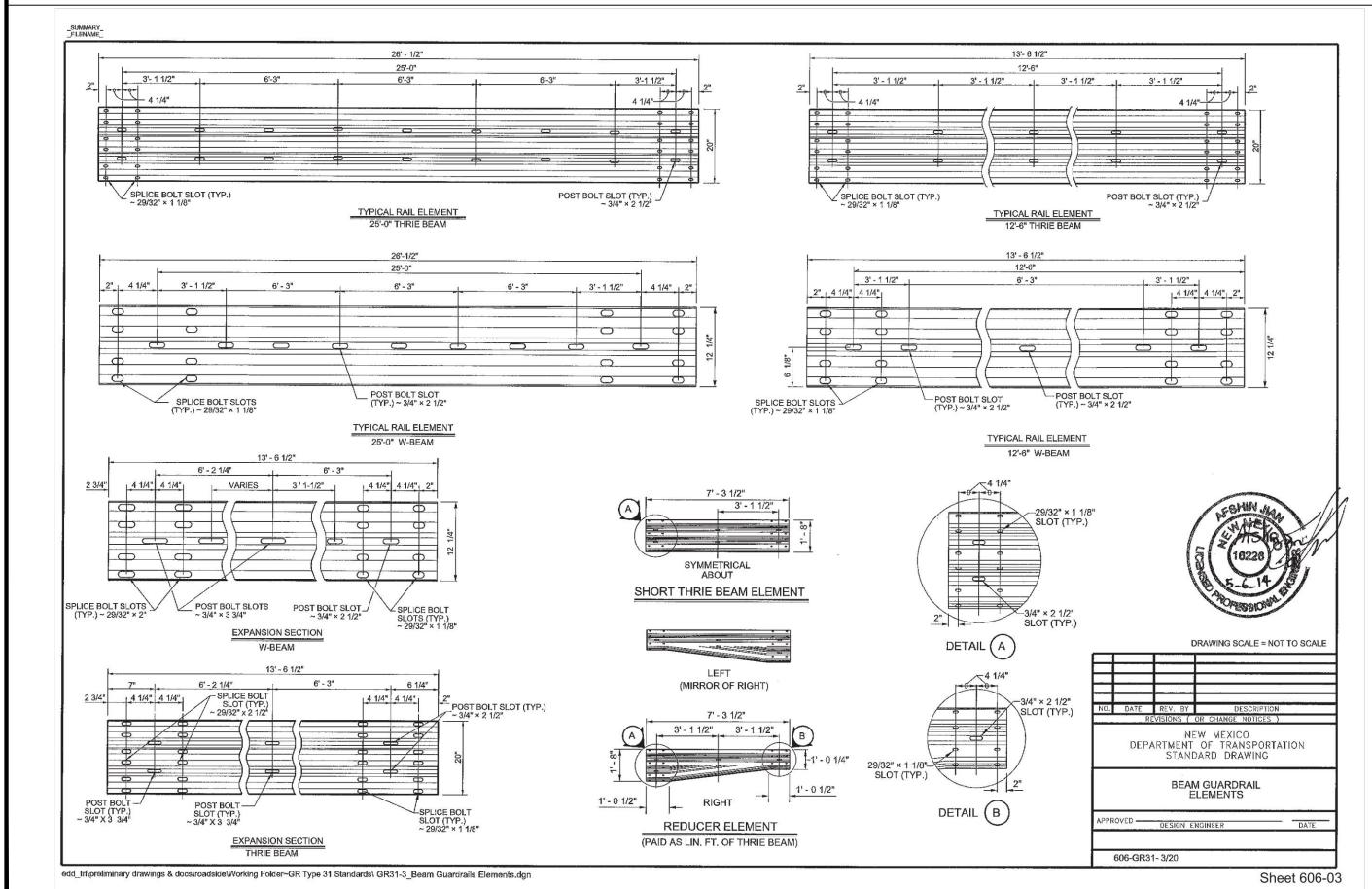
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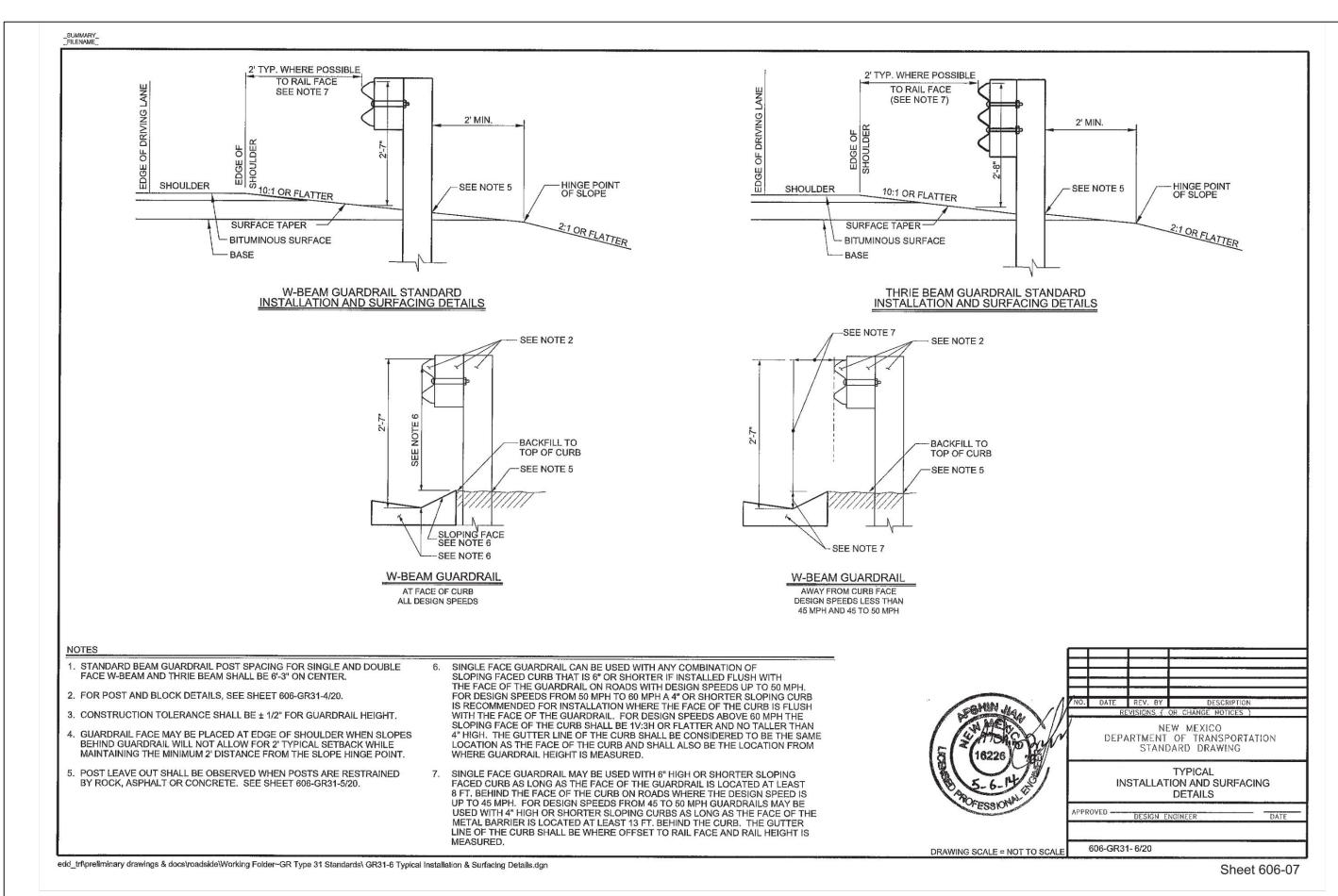








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DRAINAGE DE NEW MEXICO DUS DETAILS

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